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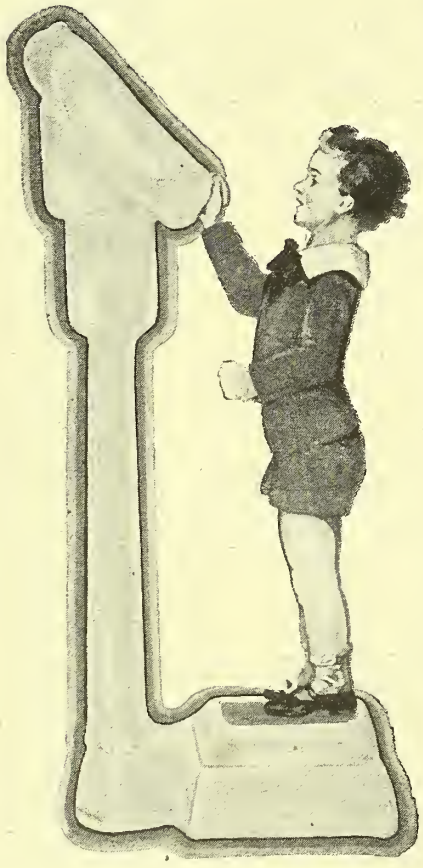
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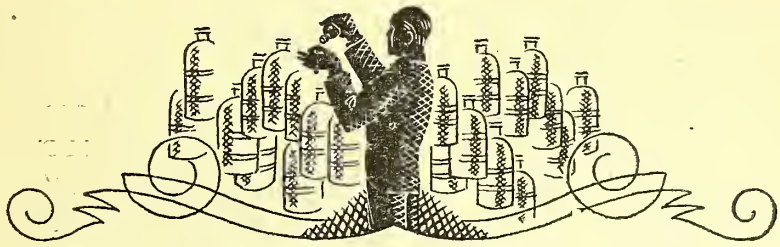
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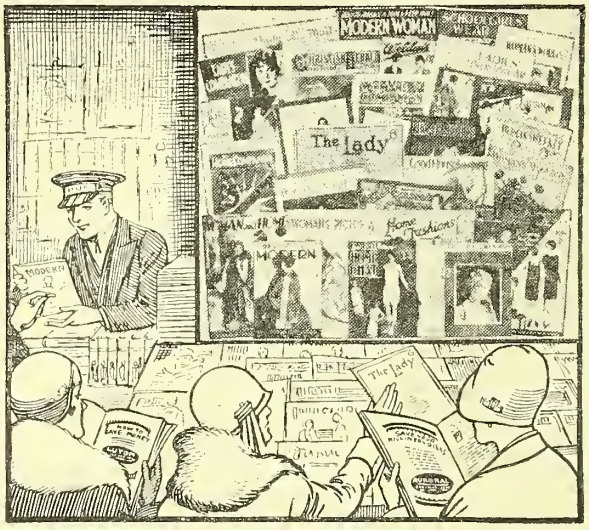
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ADDRESS.....

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(Less 2½% for C.W.O.)		£1	0 10

1 doz. 6d. (6 Wet, 6 Dry) Coke's Dog Shampoo Powders Free in Payment for Display.

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2½d. packet makes one gallon.
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Aluminium

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Maw's Page

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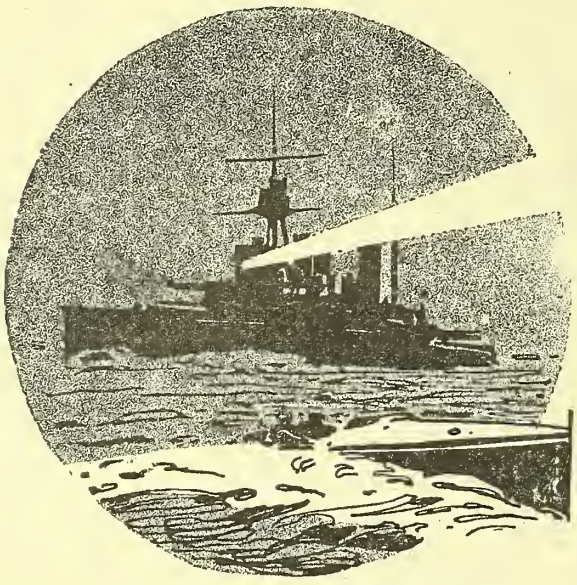
A month's study of text-books and trade catalogues will not provide you with the ideas for increasing your business you will accumulate here in a single hour.

In Maw's showroom you will not only find a full range of druggists' sundries, including many new lines, but, also, new methods of display, stock-keeping and pharmacy fitting. On every hand you will discover original ideas to enable you to make the most of every inch of space in your pharmacy and to show your goods to best advantage.

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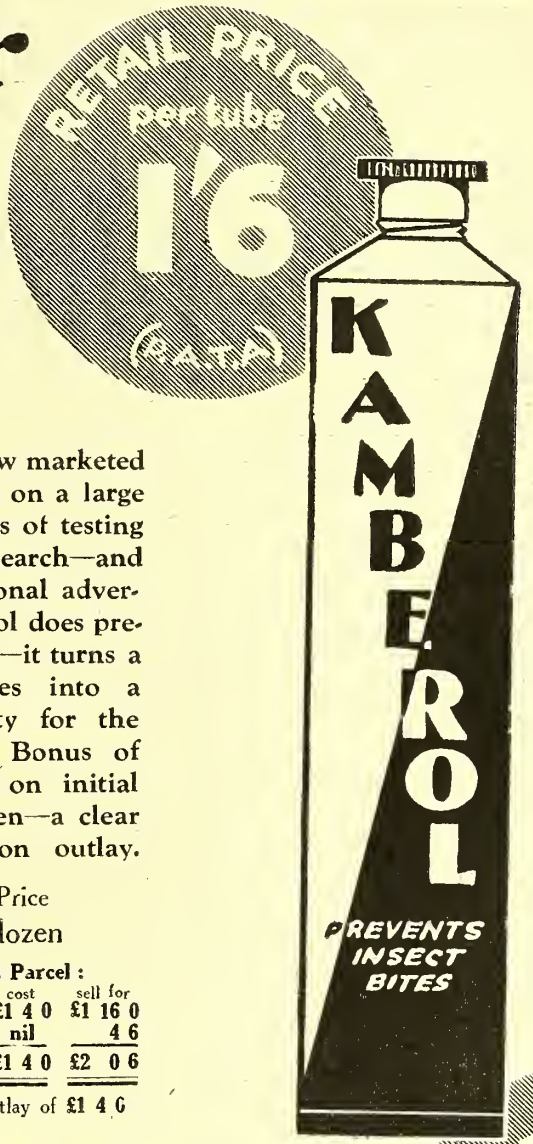
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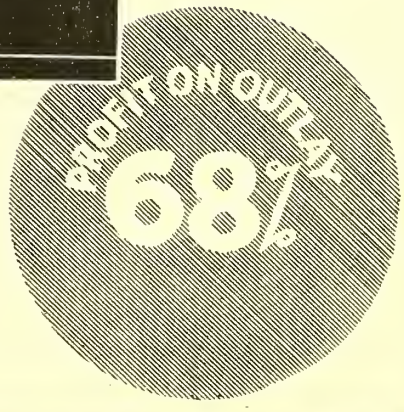
	cost	sell for
2 dozen Kamberol tubes	£1 4 0	£1 16 0
3 tubes FREE	nil	4 6
	£1 4 0	£2 0 6

PROFIT—16/6 on outlay of **£1 4 0**

Send your order now and be ready for the summer demand

KAMBEROL

Wholesale Distributors for the United Kingdom :
Meggeson & Co., Ltd., Bermondsey, London, S.E.16



ARE YOU NEAR THE END OF YOUR FINANCIAL YEAR?

IF SO, DO NOT FORGET THE

C. & D.
STOCK-TAKING PAD

(SECOND EDITION)

THE GREATEST TIME-SAVER IN THE TRADE

The new edition is prepared on exactly the same lines as the first edition, but we have taken the opportunity of including further items in the drug and chemical list to correspond with improvements made in the *C. & D.* Retail Price List. These additions have increased the number of pages to 43, and in accordance with numerous suggestions more blank pages have been provided at the end.

Price **2/6**, *post free*

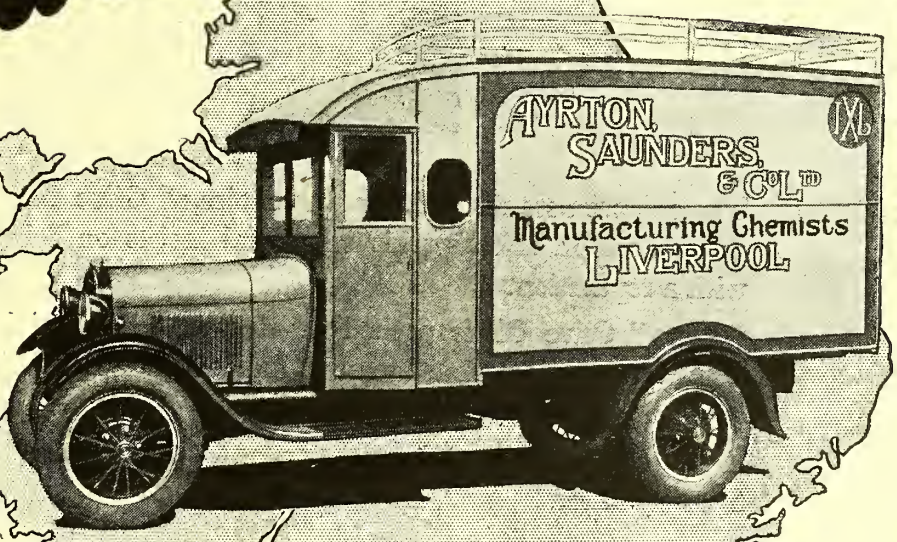
J. T. P. (23/14) writes :—"Please send me a pad of the *C. & D.* Stock-taking Sheets, for which I enclose 2/6. I found it a great *time-saver* last year."

S. P. (16/25) says :—"The *C. & D.* Stock-taking Pad is the best thing I have seen yet. It is useful also to form the original stock-list of a new shop, saves many hours' work and prevents omissions. I shall always use it in my pharmacies."

W. J. B. (21/18) writes :—"We had one of your Stock-taking Pads last year and found it very convenient, as it saves a great deal of trouble."

THE CHEMIST AND DRUGGIST
PUBLICATIONS DEPARTMENT
42 Cannon Street - - - LONDON, E.C.4
BRANCH OFFICES { 49, County Buildings, Cannon Street, Manchester;
54, Foster's Buildings, High Street, Sheffield.
19, Waterloo Street, Glasgow.

Ayrton's — Everything Pharmaceutical



Everywhere

AYRTON SAUNDERS & Co LTD
34, Hanover Street, LIVERPOOL, ENG.

SASSO OLIVE OIL



The epicure uses discretion in the choice of Olive Oil just as he does in selecting his wine and insists on a brand with a reputation.

"Sasso" Olive Oil is packed in elegant bottles of both Imperial and Reputed Measure and shows a P.A.T.A. protected profit of 50%

Write for new season's samples and price list giving Special Offer.

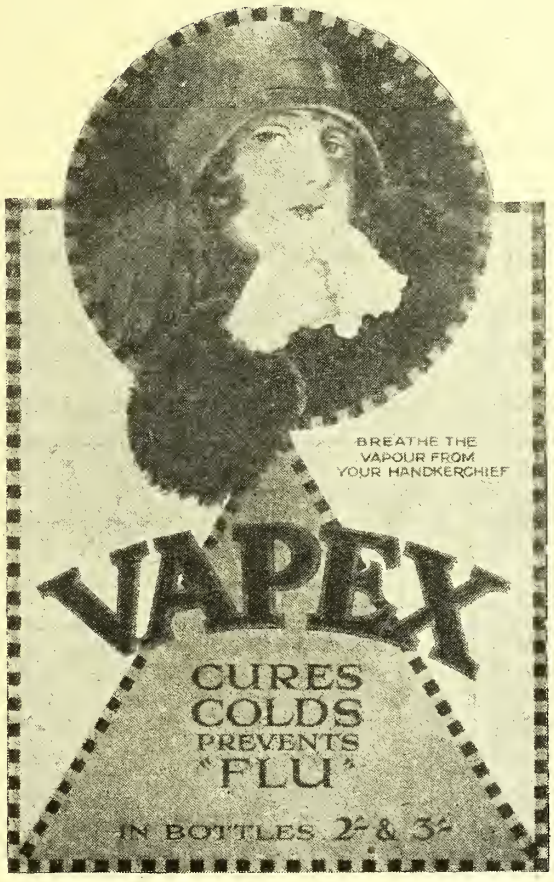
*

Producers: P. Sasso e Figli, Oneglia, Italy

Sole Distributors for the U.K.:

Fredk. Boehm Ltd., 17 Jewry Street, London, E.C.

APRIL SHOWERS !



THIS CARD WILL LOOK WELL ON YOUR COUNTER

THE uncertainty of our climate is responsible for thousands of colds during the Spring season. There is a natural tendency to take liberties with the weather —and the inevitable result will follow. April showers bring forth more customers for "Vapex."

Let your customers know that you stock "Vapex," they will be glad to be reminded of such a pleasant and effective remedy.

Simply put this cut-out showcard on your counter. It takes up little room but will certainly attract favourable attention. A copy will be included with your order or posted on request.

To EXPORT BUYERS—All orders and enquiries should be addressed to our Sole Export Agents Wm. ALFRED JONES, Ltd., West India House, Liverpool.

D/57

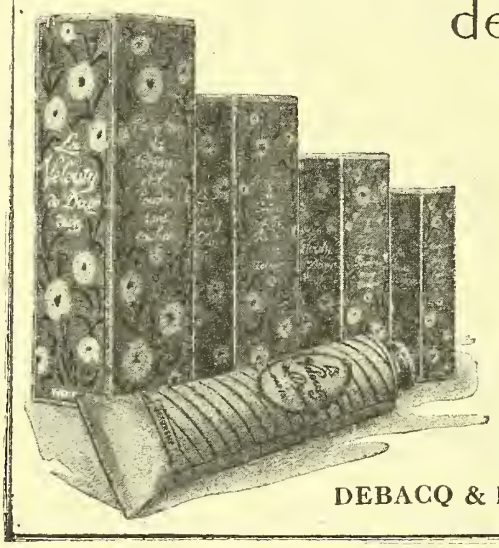
THOMAS KERFOOT & Co LTD
BARDSLEY VALE, LANCASHIRE,
& Bardsley House, London, N.1
ESTABLISHED 1797.

COPYRIGHT

the original combined Cream and Powder

la VELOUTY

de DIXOR Paris



The advertised line that you are asked for.

NOW ON P.A.T.A.

Samples free upon receipt of trade card or billhead.

PRICES :—Full size pot -	21/- doz.	RETAIL	2/9
Super tube -	22/- ,,	,,	3/-
Large tube -	14/- ,,	,,	2/-
Medium tube	7/- ,,	,,	1/-
Handbag tube	3/- ,,	,,	6d.

Made in four shades :

WHITE, IVORY, NATURAL and OCHRE.

Obtainable from your regular Wholesaler or direct from the Sole British Agents:

DEBACQ & HARROP, 68 Newman St., Oxford St., London, W.1

See to your STOCKS!

It's dangerous to run low of **ANZORA**. For running low means probably running out—and that means sales lost, for few men will accept a substitute for **ANZORA** when they have once used it. Better see to your stocks TO-DAY!

ANZORA

Masters the Hair!



ANZORA CREAM *for greasy scalps will not soil hat linings or pillows.* ***ANZORA VIOLA*** *for dry scalps contains a little oil of violets.*

TRADE TERMS :

12/- *doz.* - *Retail at* 18/-
20/- *doz.* - *Retail at* 30/-

A supply of Attractive Showcards and Cut-outs for Window Display sent post free.

REFUSE ALL SUBSTITUTES.

If unobtainable from your wholesaler, write direct to

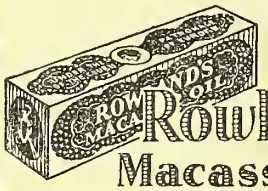
ANZORA PERFUMERY CO., LTD.
LONDON, N.W.6

For 136 years

Rowland's Macassar Oil has been a favourite dressing for the hair. It keeps the hair healthy, and prevents the encroachment of greyness and baldness.

Of all Wholesalers.

RETAIL
3/6, 7/- & 10/6
P.A.T.A.



Rowland's Macassar Oil

Red for dark hair
Golden for fair or grey hair

A. ROWLAND & SONS, Ltd., 112 Guilford St., London, W.C.1



For SCURF, NITS, Etc.,

STOCK & SELL The SACKER COMB.

Highly recommended by the Ministry of Health.

Retail 2/9 each.

Each comb in a royal blue metal box.

Sole Manufacturers:

SACKERS, 13 Blackstock Road, London, N.4.



Supreme!

There is no better —

baby powder than "White Cross"—nothing that is smoother or purer, or more grateful to tender skins. There is no more profitable baby powder than "White Cross"—nothing that brings the same proportion of repeat business yielding a protected profit of over 40% to the Pharmacist.

Cussons' WHITE CROSS BABY POWDER

is sold in large dredger tins at 10½d. (P.A.T.A.) Trade price 6s. doz. Packed in beautifully lithographed display cartons of 1 dozen.

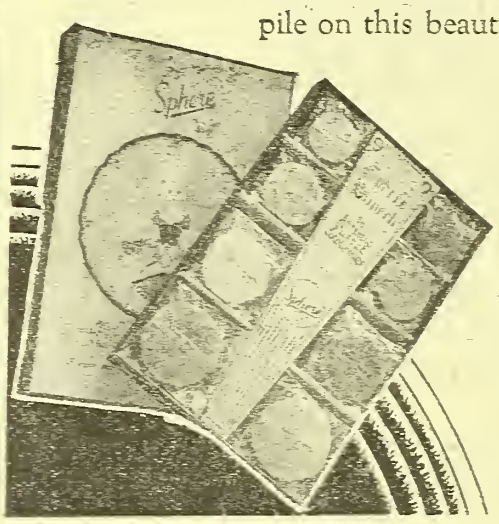
FREE SAMPLE

If not already stocked write for free sample tin (full 10½d. size) and form your own opinion.

Cussons

KERSAL VALE, MANCHESTER

SPHERE
SUPERB POWDER PUFF



A new Puff made of Sylkie-down Velour. The pile on this beautiful puff is produced in such a way as to retain just sufficient powder to enable the user to apply it smoothly and evenly, without streaks, as is the case with coarser materials.

Supplied in assorted colours and sizes.

ATTRACTIVE DISPLAY BOX.

No. PF 50 as illustrated, 2 doz. in a box ... **7/6** per box.

Assorted Six Puffs each 2", 2½", 2¾", and 3¼" to the box.

Wholesale only:
FAIRE BROS. & Co., Ltd., Leicester.

Nuctone
FOR GREY HAIR —

NUCTONE ECLAIRE, ECLAIRE CONCENTRE
NUCTONE AND NUCTONE CONCENTRE

Order through your usual wholesaler, or from
J. C. GAMBLES & CO. LTD.
211 BLACKFRIARS ROAD, .
LONDON, E.C.1

Manufactured by
STEWART, GOODALL & DUNLOP, LIMITED,
4 DERING STREET,
LONDON, W.1



SHADEINE
For COLOURING GREY HAIR

This popular article is largely advertised and stocked by all Wholesale Houses.
Trial size 3d. per doz. 6/-
1/6 size, per doz. 12/-
2/6 size, per doz. 24/-
3/6 size, per doz. 36/-

The SHADEINE CO., 58 Westbourne Grove, London, W.2.



GREY HAIRS
appear just here.
TOUCH THEM UP WITH
TATCHO-TONE

Trial Phial 8D *Post Free*

and they will instantly recover their natural shade. Medical Guaranty with each bottle. Chemists' Prices 2/6 and 4/6

TATCHO-TONE CO., 5 Great Queen Street, London, W.C.2

An attractive proposition——

Send for a Sample to

A superfatted skin soap of exquisite perfume.
A beautiful outer wrapper with YOUR OWN NAME.
An inner wrapper with guarantee of purity.
A first quality toilet soap with creamy lather.
A competitive price:—33/6 gross less 2½% discount for cash 14 days.
£2 orders carriage paid. Free Cases.

R. F. WHITE & Co. Ltd., Grove Mills, London Rd., Mitcham.

Myosotis

Under Royal Patronage

LES PARFUMS DE Myosotis

Val Fleuri

63/-

Gardenia

5/6 12/6 25/-

Wallflower

4/- 10/6 21/-

Lilas

4/- 10/6 21/-

Merveilleuse

4/- 10/6 21/-

Lily of the Valley

4/- 10/6 21/-

EACH EXQUISITE CUT-GLASS CRYSTAL BOTTLE
IMPRISONS THE SOUL OF THE NAME FLOWER

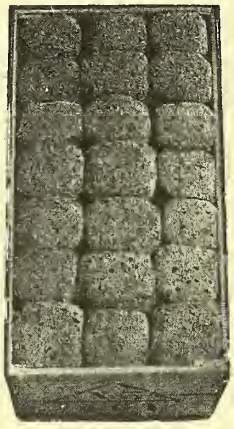
Distinguished
Perfumes and
Beauty Preparations

Myosotis
Seven Hanover Square
London
West One

Myosotis Myosotis

B B

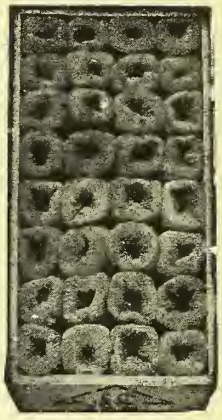
"A FEW WORDS CONCERNING SPONGES"



HOW TO DISPLAY THEM
HOW TO SELL THEM

People belonging to all grades of Society buy Sponges when rightly enticed, and the only temptation necessary is to make an arresting display in your pharmacy.

Observation has shown that a passing stranger is often attracted by a Sponge. Let your window show be Sponges *only*, rightly and boldly priced, and let your customers pick and choose at leisure.



TRY IT

We hold large Stocks and all Orders receive PERSONAL ATTENTION.

WILLIAM EDWARDS & SONS

Wholesale and Export Druggists' Sundriesmen

14-18 NILE STREET, CITY ROAD, LONDON

MERCOLIZED WAX

— : for the Complexion : —

and

STALLAX

— : a Shampoo : —

TWO substantial and well-advertised lines which show a handsome profit to the Retailer, and, moreover, may be stocked fearlessly owing to the Manufacturers' most liberal Sale or Return Guarantee.

Both are obtainable in two sizes, and their reputation and sterling value assure a steady turnover.

Order through your Wholesaler, or direct from:

DEARBORN (1923) LIMITED

37 GRAY'S INN ROAD, LONDON, W.C.1.

Telephone - - - HOLBORN 9669

Merit+Profit+Advertising

A PRODUCT OF MERIT, with a good profit and with the assistance of public advertisement, must necessarily be an asset to any business.

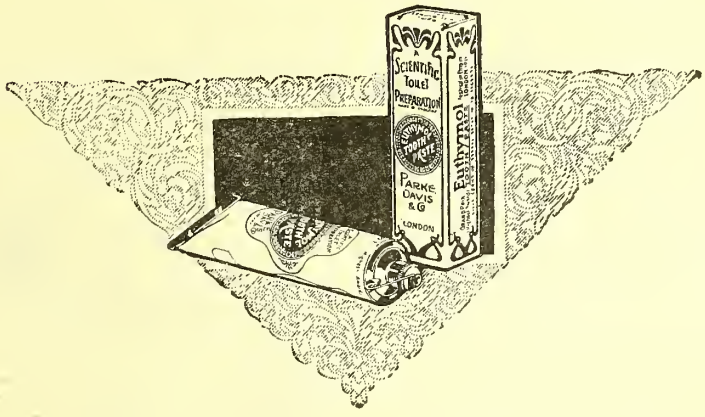
Such is Euthymol Tooth Paste.

This product has given satisfaction to dentists and the public for more than 30 years. It does all that can reasonably be claimed for any dentifrice. In other words, it has real *merit.*

The *profit* on Euthymol leaves something over, after allowing for overhead expenses.

In all the well-known national daily papers and weekly and monthly magazines honest, insistent *advertisements* appear at frequent intervals—each advertisement emphasizing "of all chemists."

If you are not already purchasing on special terms, please send for particulars.



PARKE, DAVIS & CO., BEAK STREET, LONDON, W.1



"Do you recommend this?"

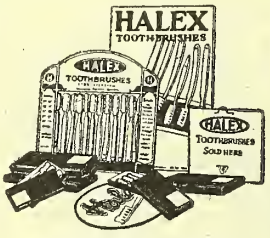
HOW easily you can answer "yes"—for Halex, the British Made brushes with the bristles that never come out; with serrated tufts spaced well apart so that the dentifrice cannot clog the roots, and the air can dry and purify the bristles.

Halex Brushes are supplied in a convenient Introductory Parcel. This parcel contains an economic stock of 4-dozen Halex brushes, plus an attractive showcase and practical display material.

26/- PROFIT ON THE HALEX INTRODUCTORY PARCEL

Your profit on the Halex Parcel is 5% more than the profit on the brushes if bought loose. It gives you a profit of 9½d. on each 2/- Halex brush, and an average profit of 6 d. on every Halex brush you sell!

The Halex range—6 patterns, 6 colours, 6 prices, – enables you to simplify your stock and yet to satisfy *any* customer. Order the Halex Parcel from your Wholesaler to-day, and



INTRODUCTORY PARCEL - - 40/-

Brushes sell for 66/-
Profit on cost 65%

keep the Halex Showcase on Your Counter

The BRITISH XYLONITE CO, Ltd, HALE END, LONDON, E.4

AEROFUME Regd.

IS NOW A

HOUSEHOLD NECESSITY

SEE TO YOUR STOCKS

In Bottles
2/3 : 3/6 : 6/3
Also complete with Spray (as illus.)
5/6
Subject to 33⅓%

Carriage paid on orders of 1 *dozen to any part of U.K.*

Showcards supplied.



Obtainable from all usual wholesalers or from:

WALDEN, WALDEN & CO.
15 Grape St., New Oxford St., W.C.

SELL "AMO" Sheffield Steel RAZOR BLADES
THEY "GRATIFY"! BIG PROFITS FOR CHEMISTS & DRUGGISTS



Try Before You Buy & tell what you sell. Write at once for Free Testing Sample

Retail 1/6 doz.
(24 SHAVING EDGES)
Showcards Supplied

OBTAINABLE THROUGH YOUR USUAL WHOLESALERS
ORDER NOW 8/- per gross ORDER NOW
or write direct to the Authorised Sole Distributor,
L. FRANKENBERG, 125 Houndsditch, London, E.1
'Phone: Avenue 8846. *'Grams: "Uzecarnos, Ald, London."*



A KEEN BLADE AT A KEEN PRICE

The Blade that SELLS as it SHAVES—
"LIKE GREASED LIGHTNING!"

Obtainable from all Leading Wholesalers.
Inquiries from Genuine Wholesalers only are Invited.

Dept. C.D. "Wanie" Distributors:
c/o ROEBUCK'S ADVERTISING SERVICE
Salisbury Square House, Salisbury Sq., Fleet St., London, E.C.4

Benefit by the Growing Demand



By combining the valuable properties of Ichthyol with the noted characteristics of Bristow's Toilet Soaps, we are able to produce, in Bristow's Medicated, an eminently pleasing skin soap which develops a rich creamy lather with striking ease.

Increasing sales and regular repeats prove it in greater demand than ever before. It is a *chemists'* line only, and carries liberal bonus terms. Are you stocking?

This attractive display stand is free on request.

TOILET SIZE	BATH TABLETS	SHAVING STICKS	SHAVING CREAM
6d. each.	1/- each.	1/- each.	1/3 each.

BRISTOW'S
MEDICATED
SKIN SOAP
A REALLY PROFITABLE CHEMIST'S LINE

T. F. BRISTOW & Co. LTD.
Colindale, Hendon N.W.9.



"Victor" Rubber Sponges

MONEY saved is money made, and the economical reliable and hygienic Rubber Sponge is to-day increasingly superseding the costly natural sponge.

Our "VICTOR" Rubber Sponge has for many years been acknowledged to be the ideal sponge, not only for toilet use, but also for washing down motor cars, saddlery and similar purposes.

Its special feature is the fine texture and smooth surface, a result achieved by special selection of the best quality durable rubber, and our own methods of technical control and manufacture.

British throughout

IOCO

"For long service"

FOUR SIZES, OVAL AND ROUND.

Write for particulars, or order your requirements from your regular wholesaler.

We also specialise in:—
RUBBER SPONGE FLOORING, MATS, SHEETS, HOT WATER BOTTLES, HOSPITAL SHEETINGS, ETC.

The IOCO RUBBER & WATERPROOFING Co., Ltd.
Netherton Works, Anniesland, Glasgow, W.3.

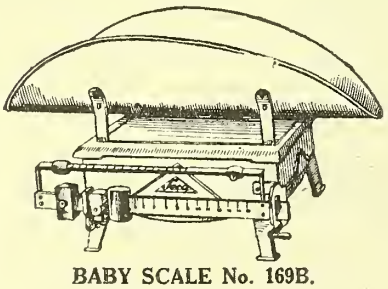
WHY NOT OWN A WEIGHER *AND LET IT BUY ITSELF?*

Special Exhibition Offer

FROM NOW UNTIL THE CLOSE OF THE CHEMISTS' EXHIBITION ON MAY 31 WE ARE OFFERING 500 OF THESE ATTRACTIVE SMALL WEIGHERS AT THE

Special Reduced Price of £12
(USUAL PRICE £17)

We are exhibiting at the Chemists' Exhibition, May 27-31, and invite you to visit Stand 155, where a full range of all types of indoor and outdoor weighers suitable for the Chemist will be shown.

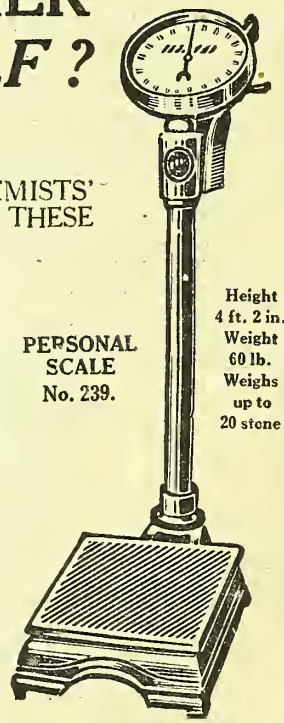


BABY SCALE No. 169B.
Cash Price £3.

THE PENNIES PAY AS THE CUSTOMERS WEIGH

For further particulars write, call, or 'phone to our City Showrooms:

SHEFRAS NOVELTY CO.,
Fetter House, 54/5 Fetter Lane,
LONDON - - - E.C.4
'Phone: City 0329.



PERSONAL SCALE No. 239.

Height 4 ft. 2 in. Weight 60 lb. Weighs up to 20 stone

Only 10 days to secure 66%

OUR Bonus offer, whereby you obtain 66% profit on cost price, will positively close on Monday, April 15th. Here are the terms :—On all orders placed by Monday, April 15th next, an extra discount of 7½% will be allowed on orders of not less than 2 dozen of each of the 1/- and 1/6 sizes of Aziadé, or to the value of £2 at trade prices. So you get the usual P.A.T.A. 33⅓, the bonus of 7½ and 2½ for cash, *i.e.*, 40% on selling, or 66% on cost. Do not miss the opportunity of securing this fine profit on an article which every one of your Women customers will want. Aziadé will be well advertised—see list of papers below.



The above is a facsimile of the novel COUNTER and DISPLAY CONTAINER which is strikingly illustrated in 5 colours, while the inside of the box is gold-lined with counter-sunk divisions to hold the "Boxettes." These "Boxettes" now have charming designs in colours on the screw-on airtight lid. The DISPLAY CONTAINER holds the standard assortment of the following perfumes :—

2 Jasmin
2 Muguet (Lily of the Valley)
2 Chypre
2 Lilas (Lilac)
2 Violette
2 Lavande (Lavender)

GUENEAUX (ENGLAND) LIMITED
168 Regent Street, London, W.1
Telephone : Gerrard 7478.

AZIADÉ Compact Perfumes

GUARANTEE — AZIADÉ Compact Perfumes de Luxe are guaranteed not to turn "musty" or lose their delightful fragrance. Further, they are sold on the condition that *unsold goods may be returned at any time* for cash or credit. You therefore run no risk in ordering.

PRELIMINARY "AZIADÉ" ADVERTISING.

Daily Mail, Daily Mirror, Daily Sketch, Daily Express, Bath Chronicle, Bournemouth Daily Echo, Bristol Evening Times, Bristol Evening News, Bradford Daily Telegraph, Liverpool Echo, Manchester Evening News, Manchester Evening Chronicle, Nottingham Evening Post, Nottingham Evening News, Portsmouth Evening News, Sheffield Telegraph and Star, Sheffield Mail, Southampton Daily Echo, Yorkshire Evening Post, Yorkshire Evening News.

Advertisements in the above papers have already, or will appear during April.

Send this now

BONUS ORDER FORM.

To GUENEAUX (ENGLAND) LTD., 168, Regent Street, W.1.
Please send me 2 (two) dozen of each of the two sizes of AZIADÉ Compact Perfumes. I enclose P.O. Cheque for £1 16s. 1d. special bonus price.

Name.....
Address.....
Date.....

Be ready for the *Punkt Roller*

self massage appliance



These striking original plaster cast models are indeed "Helping Hands." If the function of a display item is to rivet attention to a shop window, these are indeed the perfect display models. One will be sent to you free for every six Standard and/or Popular Models included in your first order.

Special Spring Advertising Week

Supplementing our regular Advertising, a Special Punkt Roller Week Campaign will be conducted for the week commencing Monday, April 15th in the following papers and journals:

Daily Express	Home Fashions	Windsor Magazine
Daily Telegraph	Home Magazine	Hutchinsons' Magazine
Daily Sketch	Woman's Journal	Royal Magazine
Daily Mail	Ladies' Companion	Answers
Daily Mirror	Mabs Fashions	Home Chat
Evening Standard	Modern Woman	Peg's Companion
Morning Post	Home Notes	Woman's Friend
Manchester Empire News	Good Housekeeping	Passing Show
Sunday Express	Strand Magazine	Sphere
Sunday Dispatch	Pearsons Magazine	Sporting & Dramatic
Sunday Pictorial	Cassells Magazine	Woman's Life
Punch	London Magazine	Poppy's Paper
Weldons (3)	Wide World Magazine	

Get stocks from your Wholesaler to meet the demand. A good display will secure your share of the business.

Any chemist ordering rollers to the selling value of £20 can have an advert. 5" double column inserted in one Local Paper of his choice.

When ordering rollers do not forget to order the Punkt Friction Spray.

Sole Wholesale Distributors—

Punkt Products Depôt

41 GREAT TOWER STREET, LONDON, E.C.3

Telephone: Royal 8738. Telegrams: "Punktrole, Phone, London."

Tosca of "4711" repute

HERE IS A NEW CREATION OF THE HOUSE OF "4711."

A national advertising campaign has just started—3-coloured whole pages in leading illustrated journals.

Do not lose sales by being without a sufficient supply of these toiletries to meet the demand that must result from this extensive advertising.



Tosca PERFUME, **2/6, 5/-, 6/6** and **12/6** each.
BOTTLE DE LUXE, with gilt cap, 12/- each.

Tosca VANISHING CREAM, in pots **2/6**, in tubes **1/6** each.

Tosca POWDER, in all fashionable shades, **2/-** per box.

Tosca COMPACT POWDER **2/6** each, Refills **1/6** each.

Tosca EAU DE COLOGNE (strongly perfumed with Tosca), at **2/6, 5/6** and **8/9** per bottle.

The success of **Tosca** on the Continent has exceeded all expectations.

Write for terms, etc., to

R. J. REUTER COMPANY LTD.
69 CARTER LANE, LONDON, E.C.4

MACHINE-MADE POISON BOTTLES

HAVE THE FOLLOWING ADVANTAGES OVER HAND-MADE BOTTLES:

1.—Accurate Capacity.
2.—Uniform Shape.
3.—Uniform Size of Necks.
4.—Uniform Colour.

STOCKS KEPT OF THE FOLLOWING SIZES IN FLAT & HEXAGON, BLUE OR GREEN:

	½	1	2	3	4	6	8 *oz.*
Original Crates	25	15	10	6	5	4	4 *Gross*

ONLY WHOLESALE HOUSES SUPPLIED.

Write for Prices and Samples to:

WEISS, BIHELLER & BROOKS, Ltd.

70 1 Chiswell Street, London, E.C.

ZEALS ASTHMA FLUID

MAKES LIFE WORTH LIVING



COMPLETE OUTFITS

with this high grade INSTRUMENT (not a common Spray) and Stand as shown. Fluid, Instructions, &c., neatly boxed with a priced show ticket.

SELLS AT 25/-
FLUID (REFILLS), 5/-

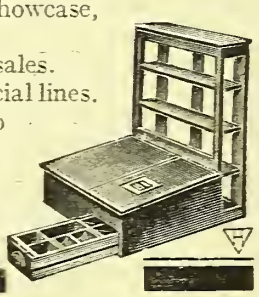
Thousands in use in all parts of the World.

Write for terms and booklets, or order through Wholesaler.

ZEALS ASTHMA FLUID & ATOMIZER CO., Ltd.
84 Uphill Park Road, WESTON-SUPER-MARE.

SPECIALLY FOR CHEMISTS

COMPACT AND CLEAR DISPLAY is obtained with the Gledhill Desk and Showcase, designed specially for Chemists.
THE TILL provides a system of dealing with cash transactions and analysing sales.
THE SHOWCASE helps to increase these Sales by tastefully presenting your special lines.
Send for details of this *multum in parvo*, which is made in handsome style to fit your counter space.



G. H. GLEDHILL & SONS, LTD.
16 TRINITY WORKS - - - HALIFAX, YORKS

"SURCO"

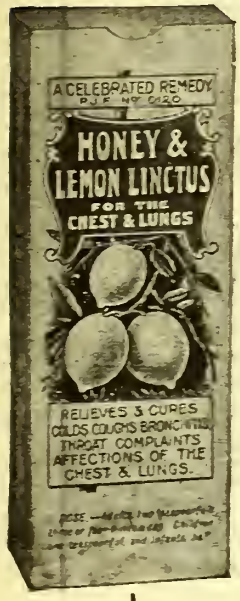
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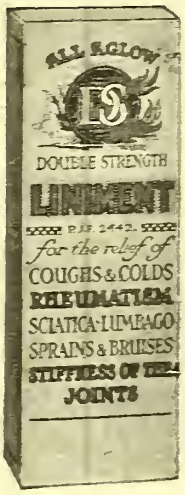
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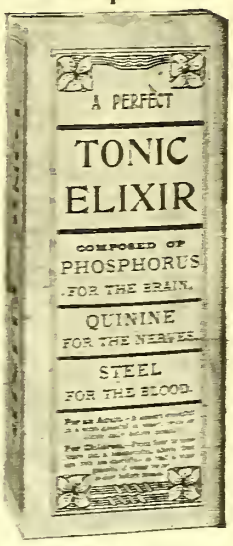
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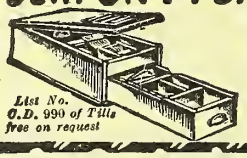


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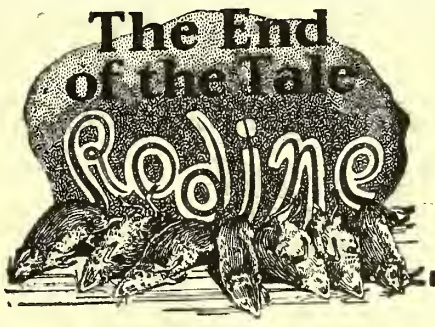
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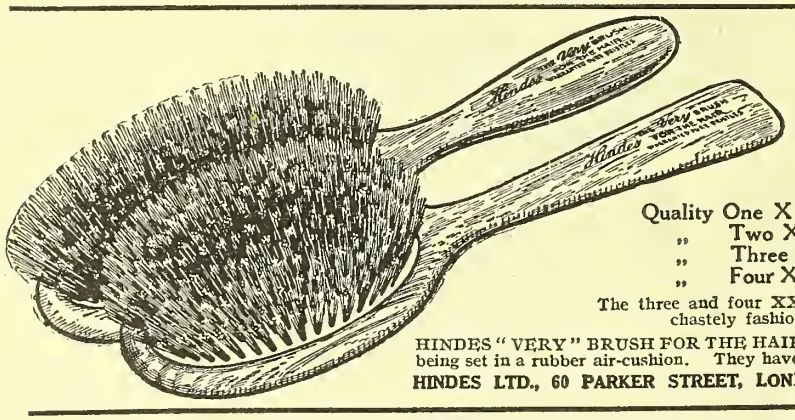
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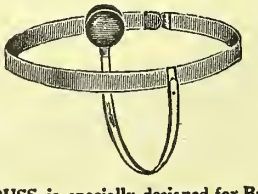
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Coming Events

This section is reserved for advance notices of meetings or other events. These should be received by Wednesday of the week before the meetings, etc., occur.

Friday, April 5

Edinburgh Chemists', Assistants', and Apprentices' Association, 36 York Place, Edinburgh, at 8 p.m. Annual business meeting. Election of office bearers. Debate on "The Ideal Apprenticeship."

Monday, April 8

Retail Pharmacists' Union, Ipswich and East Suffolk Branch, Church Institute, Tavern Street, Ipswich, at 7.45 p.m. Meeting.

Wednesday, April 10

Western Pharmacists' Association, 192 Oxford Street, London, W.1, at 8.30 p.m. Debate on selected subjects.

Thursday, April 11

Proprietary Articles Trade Association, Hotel Russell, London, W.C.1, at 3 p.m. Annual meeting.

North London Pharmaceutical Association, Restaurant Frascati, Oxford Street, London, W.1, at 6 for 6.30 p.m. Annual dinner and dance. Tickets 12s. 6d. each. Evening dress.

English and Welsh News

The Editor will be obliged if subscribers will send him marked copies of newspapers containing items of interest for insertion in this or other news sections.

Merchandise Marks Enquiry

The Standing Committee appointed by the Board of Trade will begin their inquiry as to whether imported glassware (including bottles, jars, etc., and tubing and rod) should bear an indication of origin at 11.30 a.m. on Monday, April 29. A further meeting will be held at 10.30 a.m. on Tuesday, April 30. The inquiry will be held at the Board of Trade offices, Great George Street, London, S.W.1. Communications should be addressed to the secretary, Mr. E. W. Reardon, at that address.

A Growing Society

The annual meeting of Boots' United Chemists Pension Fund and Friendly Society and Boots Co-operative Insurance and Pension Society, Ltd., was held at 157-162 Western Road, Brighton, on March 20. The Hon. J. C. Boot was in the chair, and was supported by members of the executive committee and Mr. J. E. Hilton, secretary. There were present about 120 members of the qualified staff from Brighton and the South Coast areas. Commenting on the balance sheet, Mr. Boot pointed out that the combined funds had grown by over £30,000, and that the combined total was now over £360,000. The Society was steadily growing. The balance sheet disclosed a very satisfactory state of affairs, and there was no reason why at the end of the next general meeting period the valuation should not enable them still further to increase the basic pension. With general progress the pension could steadily become greater. The societies might have made big promises, as many other societies had done, and then find themselves unable to fulfil those promises. In their own case they had started with a moderate promise which was justifiable and justified by the accounts.

Inquests

An inquiry was held at the West Suffolk Hospital, Bury St. Edmunds, on March 27, concerning the death of Mr. Thomas G. Jackson, engineer, who had been a patient in a private ward. Evidence showed that he was given a teaspoonful of brandy mixed with "three or four times that amount" of what was thought by the nurse to be water but was a 1-in-80 solution of carbolic acid. He died next day. Dr. John Wright, Cambridge, who made a *post-mortem* examination, said the cause of death was heart failure. The carbolic acid solution would not contribute to his death. A verdict of "Death from natural causes" was given, and the jury expressed the view that more care should be taken in the wards of the hospital.

The Islington (London) coroner opened, on April 1, an inquest on the body of Walter W. Archer, aged seven, who, it was stated, died after taking an overdose of grey powders which had been supplied from St. Bartholomew's Hospital. Sir Bernard Spilsbury said that he had seen the prescription for the grey powders. He did not think that two grey powders would seriously affect the child. If, however, he took a large quantity they might do. There were one or two cases of death through taking grey powders on record. In this case death was due to acute colitis. Asked by the coroner if that might have been caused by food poisoning, Sir Bernard said that it might have been due to infection or to poisoning by mercury. It would help him if he knew whether there was any mercury in the body. The inquest was adjourned for an analysis to be made.

Liverpool

The advisability of taking legal action against persons who order prints of their films from chemists and then fail to call for them is being discussed in many quarters.

Damage to the extent of £15 was done to the plate-glass window of the Victoria Pharmacy, owned by Mr. Edwin Lawrence, 97 Mount Pleasant. At the Liverpool Police Court the culprit was ordered to pay £17.

While some of the city chemists have been fairly busy, the suburban shops report things rather quiet, one chemist

ascribing this to Eastertide beginning at the end of the month. Holiday photographic business, however, has been good.

Eighty Part II students of the Liverpool School of Pharmacy paid a visit to the laboratories of Evans Sons Lescher & Webb, Ltd., on March 21. Divided into three parties, they were conducted through the works by Messrs. Sendall (director), Manson and Turner. They were afterwards entertained to tea at the Bear's Paw Restaurant. Mr. T. Edward Lescher presided. The principal (Mr. H. Humphreys Jones) proposed, and Mr. Wolfe, one of the students, seconded a vote of thanks to the company: it was carried with musical honours. Mr. Lescher and Mr. Brinson responded, and expressed on behalf of their fellow directors the pleasure it was to be of service, and hoped the visit would prove of educational value. The students were invited to write a descriptive essay of what they had heard and seen, and three prizes in the form of books will be awarded.

Miscellaneous

BURGLARY.—The premises of Mr. L. A. Kirkland, chemist and druggist, New Romney, were broken into on March 24. A sum of money and a cash register were stolen.

LONDON VAN-HORSE PARADE.—At the annual parade of the London Van Horse Parade Society, held in Regent's Park on April 1, Burroughs Wellcome & Co.'s entry was awarded a first prize.

IN THE COURTS.—At Stratford (Essex) Police Court, on March 27, a summons against James Evans, grocer, Ilford, in respect of a sale of non-alcoholic raisin wine containing 1.5 gr. of salicylic acid per pint was dismissed on payment of 21s. costs.—At Blackburn, on March 28, Mr. Joseph J. Hargreaves, Preston New Road, was fined £5 for practising dentistry without having paid his current registration fee.—At Leicester Police Court, recently, John W. Carter (73), giving an address in Hull, was sentenced to six months' hard labour for attempting to obtain money by false pretences at the shop of Wands, Ltd., London Road. More than thirty previous convictions were mentioned by the chief constable.

Scottish News

Brevities

Mr. A. Paterson, "Preston," Catherine Street, Motherwell, has been appointed Scottish representative for Arthur H. Cox & Co., Ltd., in succession to Mr. Clementson.

A lantern lecture, entitled "Some Impressions and Experiences among the Swiss and French Alps," was delivered by Mr. William F. Martin, F.I.C., chemist and druggist, on March 27, to members and friends of the recently formed social club of the works department of T. & H. Smith, Ltd., Edinburgh. The lecturer exhibited slides prepared from negatives taken by himself. Mr. John Bryce, chemist and druggist, presided.

Glasgow

The annual golf tournament for Scottish chemists is to be held over the Gleneagles course on May 15. All inquiries should be addressed to the secretary, Mr. Donald Mackenzie, 554 Dumbarton Road, Glasgow, W.1.

Bro. George Mackay, Master, presided at the regular meeting of Lodge Galen, held on March 14. There was a large attendance, and the third degree was conferred on three brethren. The leading part in the ceremonial was taken by Bro. Arthur Watt, well known in the drug trade as representative for R. Gibson & Son, Ltd., Manchester. An excellent harmony followed.

The Glasgow Pharmacy Club held the last of the season's series of whist drives in their rooms at 165 Hill street on March 26. The whist prizes were provided by Mr. James Hamilton (John Hamilton & Co.) and Mr. William Anderson (Menley & James, Ltd.), and were won by the following players:—*Ladies*: (1) Mrs. McGillivray, (2) Miss Gordon, (consolation) Miss Ethel Abbott. *Gentlemen*: (1) Mr. A. Aitken, (2) Mr. A. MacSween, (consolation) Mr. Arbuckle. Mrs. Arthur Duncan presented the prizes. An excellent musical programme was carried through after tea had been served; songs were rendered by Miss Justice and Miss B. Heron, and humorous readings were given by Miss Hendry. Miss Tully and Miss Heron acted as accompanists. Mr. James Abbott presided.

Irish News

Brevities

Members of the Ulster Retail Drug Trade Association and their lady friends were the guests of the outgoing president (Mr. D. A. Taylor) at a whist drive in the Grand Central Hotel, Belfast. The guests were received by Mr. Taylor and Miss Taylor, and the winners were Mrs. McRoberts and Mr. McMullan. Tea was provided during the evening, and at the close of the entertainment Mr. W. J. Hardy, president of the Pharmaceutical Society of Northern Ireland, moved a vote of thanks to the host and hostess. He congratulated Mr. Taylor on his activities as president of the Association during the past year, and extended to him the thanks of the company for the hospitality accorded them that evening. Mr. J. C. Culbert, who acted as M.C. during the evening, having added a few words, Mr. Taylor replied expressing his indebtedness to Mr. and Mrs. Stevenson for the assistance they had given him in organising the entertainment.

Mr. John Adams, who has just been elected to the presidency of the Ulster Retail Drug Trade Association, has long been a prominent figure in connection with the pharmaceutical organisations of Northern Ireland. Mr. Adams is a County Antrim man, and served his apprenticeship in Portrush. He was with Mr. A. C. Scott in that town, and later with the late Mr. W. J. Boggs. He then moved to Dublin, and while in the service of Mr. W. F. Wells, in Upper Baggot Street, he qualified in 1907. Afterwards he was successively manager of pharmacies in Sligo, Omagh and Portadown. In 1911 he decided to embark in business for himself in Belfast, and set up a pharmacy at 281 Upper Newtownards Road. Mr. Adams is to-day one of the leading pharmacists in the east end of the city. He interested himself in the work of the various trade organisations, and was eventually appointed secretary of the North Irish Pharmacists' Association. He was also elected to the committee of the Ulster Retail Drug Trade Association, being successively junior vice-president and senior vice-president. In the ordinary course his election to the chair would not have followed until next year but for the fact that Sir Samuel Dale, of Londonderry, the senior vice-president, was unable to see his way to fill the office owing to distance from Belfast. Mr. Adams's call to the chair was therefore unanimous, and was heartily approved throughout the entire trade. When Mr. J. C. Culbert retired from the Council of the Pharmaceutical Society of Ireland, Mr. Adams was elected to fill his place, and he has the distinction of being the last member sent from the North of Ireland to that body. On that occasion Mr. Adams was the nominee of the North Irish Pharmacists' Association, with which he is directly identified. He is a keen supporter of the amalgamation of the three societies in Belfast. He is chairman this year of the North of Ireland Philately Society. He is also an enthusiastic Freemason, and in 1923 was Worshipful Master of the Galen Lodge.



Photo] [*Baird*

MR. JOHN ADAMS.

Retail Pharmacists' Union

MEETINGS of the Executives of the Retail Pharmacists' Union and Chemists' Defence Association were held at 4/5 Queen Square, London, W.C.1, on March 20, Mr. J. E. French in the chair.

A letter was received intimating that the Photographic Dealers' Association had taken steps at the instigation of the R.P.U. to protect the interest of chemist photographic dealers who have purchased their supplies through the wholesale trade.

A letter from the Ministry of Health was read regarding the supply by chemists of Fehling's solution when ordered on N.H.I. prescriptions; the solution is to be supplied ready mixed for use by the patient. Only the solution has been scheduled.

The attention of the Executive was directed to the fact that a Pricing Bureau had through the Insurance Committee charged a chemist with a small sum purporting to represent the extra cost of pricing prescriptions for October to December 1928 which had not been sent to the Bureau until February 1929. Attention was directed to the fact that on the back of each chemist's account form there is a warning that such a charge would be made for late prescriptions. The point raised before the Executive was that the charge was arbitrarily fixed, and the chemist was not, apparently, given any opportunity of explaining or justifying his omission to despatch the prescriptions at the right time. The Executive decided to inform the Ministry of Health that while they recognised the inconvenience caused by late prescriptions and did not wish to justify any carelessness in this connection, they were of opinion that before any chemist was charged with the extra cost, the complaint against him should be referred to the Pharmaceutical Committee for them to investigate and report.

The secretary reported that in view of certain results he had instituted an inquiry into the keeping properties of packet dressings, such as carbolic and iodoform gauzes. The conclusions arrived at were that unless the dressings were freshly prepared they could not conform to the B.P.C. standard. Many samples of carbolic gauze were found to be entirely devoid of carbolic acid, although not in any sense old stock. The Executive decided to communicate with the Ministry of Health.

C.D.A. Matters

The secretary reported that there were seven cases outstanding since the last meeing, but three of these might be considered closed. The remaining cases were left in the hands of the secretary. Eight new cases had arisen during the month, of which four had been settled.

Branch Meetings

Manchester.—The annual meeting of the Branch was held on March 27, Mr. D. Dickson in the chair. The report of the secretary was read, and was considered very satisfactory. One feature was the active manner in which the Branch had brought to the notice of headquarters the menace of the co-operative societies. The treasurer's report and balance sheet was read. Mr. J. H. Nidd paid a tribute to the work of the secretary (Mr. T. Miller). The reports were adopted, and a vote of thanks to the chairman was passed. The following resolutions were passed unanimously:—(1) That the subscription of the R.P.U. should be increased by a sum sufficient to include membership of the local branches, and that the additional amount be remitted to the local branches for organisation purposes. (2) That the Manchester, Salford and District Branch of the R.P.U. expresses its satisfaction at the financial results of N.H.I. dispensing service for 1928, and records its appreciation of the great and persistent efforts made by the R.P.U. throughout the year to bring this about. (3) That this meeting of the Manchester, Salford and District Branch of the R.P.U. protests against any special pack of proprietaries supplied to chemists and popularised by them being supplied to co-operative stores, as they are all subject to dividend. If makers wish to supply their goods to co-operative stores the pack should not be a colourable imitation of the pack supplied to chemists and should not carry with it any similar show material.

South African News

From "C. & D." Correspondents.
"The Chemist and Druggist" is supplied weekly to members of Chemists' Societies in South Africa.

The Union

EXPORTS of both medicinal and toilet preparations from the United States to South Africa have shown appreciable increase during the past seven years. Concrete evidence of the successful penetration of this market by American manufacturers is revealed in a communication from Trade Commissioner S. H. Day, Johannesburg, wherein he states that a local manufacturer's representative recently stated that he had been quite successful in placing an American tooth paste in the South African market. This dentifrice is probably now the third largest selling American tooth paste in the South African market.

WEIGHTS AND MEASURES REGULATIONS.—Section 20 of Part 2 of the Weights and Measures Regulations is as follows:—No person shall (*a*) Sell or offer for sale any benzin, creosote, creosote substitute, or any preservative wood stain, lubricating oil, methylated spirit, motor spirit, olive oil, paraffin oil, turpentine substitute, or turpentine varnish, other than by measure of capacity. (*b*) Sell, import into the Union for the purposes of sale, or make up, pack, keep, offer, or expose for sale or delivery to a purchaser at any place any article specified in sub-section (*a*) in containers, unless each such container has its liquid contents marked thereon in accordance with section forty-three of the Act in the manner provided by regulation No. 26 hereof. This regulation shall not apply to any article specified therein when in bottles or tins containing less than five fluid ounces.

Transvaal

BUSINESS CHANGE.—Mr. R. Q. Leeds, for many years a director of Lennon, Ltd., has recently retired from the Board and has purchased the pharmacy of Mr. Reuben Burns, Hospital Hill, Johannesburg.

Cape Province

DINNER TO MR. KENNINGHAM.—Under the combined auspices of the Cape Peninsula Chemists' and Druggists' Association and the representatives of British manufacturers in South Africa, a dinner was held on February 20, in the Opera House Restaurant, Cape Town, in honour of the visit of Mr. J. A. Kenningham, organising secretary of the P.A.T.A., Great Britain. The gathering, which was very representative, was presided over by Mr. E. J. Adcock, chairman of the Cape Peninsula Chemists' and Druggists' Association, to whom was delegated the duty of proposing the health of "Our Guest." This he did in a most able manner, paying tribute to the late Sir William Glyn-Jones, with whom Mr. Kenningham was closely associated for so many years. Mr. Kenningham, in responding to the toast, delivered an interesting address in which he related some of his experiences in connection with the P.A.T.A. of Great Britain, also, in passing, outlining the endeavours of the late Sir William Glyn-Jones to establish a P.A.T.A. in Canada, which, largely owing to the premature decease of that great man, came to an untimely end. During the course of his address Mr. Kenningham imparted some valuable advice to the South African chemists, which, if taken advantage of, should prove extremely beneficial in the endeavour which is being made to bring about better conditions in South Africa by the stabilization of reselling prices. At the conclusion of Mr. Kenningham's address Mr. Clancy, on behalf of those present, moved a vote of thanks, and, at the same time, informed the gathering that it was the birthday of Mrs. Kenningham, also that of one of the most prominent members of the Association, Mr. Kinlay, who was present. In the circumstances he felt it a pleasurable duty, at the same time, to propose the health of both Mrs. Kenningham and Mr. Kinlay. The toast having been duly honoured, Mr. Kinlay arose, and in suitable terms responded on behalf of Mrs. Kenningham and himself, thus bringing to a close a most enjoyable and instructive function.

New Companies
and Company News

P.C. means Private Company and R.O. Registered Office.

SNOWDEN KIRK, LTD. (P.C.).—Capital, £1,500. Objects: To acquire the business of a chemist and druggist at present carried on at 6 Chrisp Street, E.14, by Mrs. Emma C. Keith. The directors are: Mrs. Emma C. Keith, H. Skinner, J. C. Carter, G. Keith, and H. G. Mumford. Solicitors: Davies & Graham, 22 Strand, W.C.2.

COUNTY CHEMICAL CO., LTD. (P.C.).—Capital £50,000. Objects: To acquire the business carried on in England by the County Chemical Co., Ltd., and to carry on the business of manufacturing chemists, druggists, drysalters, oil and colour men, etc. The directors are: W. Hill (chairman), L. C. Hill, and W. N. Hill. R.O.: 54 Bradford Street, Birmingham.

GREIG'S PHARMACY & DRUG STORES, LTD. (P.C.)—Capital £100. Objects: To acquire the business of a chemist and druggist formerly carried on by the late W. B. Greig, and subsequently by his executrix, at 591 Old Kent Road, S.E., and to adopt an agreement with C. D. Greig, W. J. Greig, Mabel G. Forbes, Constance B. Fraser, and Henrietta W. Figg. R.O.: 59 Old Kent Road, S.E.15.

KENDALLS CHEMISTS, LTD. (P.C.).—Capital £4,500 in £1 shares. Objects: To acquire the business of a chemist, druggist and ladies' and gentlemen's hairdresser recently carried on at St. Martin's Pharmacy, 6 Coney Street, York, by L. J. Kendall as "E. B. Kendall & Son." The subscribers are L. J. Kendall, 10 Wentworth Road, York, chemist, W. Bowness, 22 Charles Street, York, chemist, and Florence M. Pulleyn, Fulford Grange, York, modiste. Solicitors: Francis, Ware & Lucas, 6 New Street, York.

LEVER BROS., LTD.—The refined glycerin business which has been separately conducted by Lever Brothers, Joseph Crosfield & Sons, William Gossage & Sons, and Chris. Thomas & Brothers, will as from April 1 be merged into a new company under the title of "Glycerine, Limited," with offices at Lever House, Blackfriars, E.C.4. The new company will assume responsibility for the execution of all outstanding contracts entered into by individual firms whose interests are now vested in "Glycerine, Limited." All inquiries for quotations, orders, etc., should be addressed to "Glycerine, Limited," at the above address.

WRIGHT, LAYMAN & UMNEY, LTD.—The report of the directors for the year ended December 31, 1928, shows that the year's trading has proved satisfactory. The accounts show that, after providing for directors' salaries as departmental managers, staff bonus, bad debts, depreciations, pensions and income tax, there is a trading profit, including income from investments, of £43,843 9s. 7d. Adding the amount brought forward from last year, £10,170 4s., there remains to the credit of profit and loss £54,013 13s. 7d. From this the following appropriations have been made: Dividend of 6 per cent. on preference shares, less tax at 4s., £4,320; interim dividends of 10 per cent. on £90,000 ordinary shares, less tax at 4s., £7,200; directors' fees £4,400, making a total of £15,920, and leaving a balance of £38,093 13s. 7d. The directors recommend that this amount be apportioned as follows: Payment of a further dividend of 15 per cent. on the ordinary shares, making 25 per cent. for 1928, less tax at 4s., £10,800; payment of a bonus of 3s. per share on the ordinary shares, less tax at 4s., £10,800; carry forward to 1929 the balance of £16,493 13s. 7d. Mr. E. B. Layman retires from the board by rotation and offers himself for re-election.

Private Arrangements

Nicholas White Robson, deceased, chemist, lately trading as Richardson & Co., 15 Fore Street, Hexham. The creditors interested herein were called together recently at the County Hotel, Newcastle-on-Tyne. The statement of affairs submitted showed ranking liabilities of £914 7s. 6d., all of which were due to unsecured creditors. The assets consisted of stock £594 17s. 5d., expected to realise £297 8s. 5d.; book debts £35 10s. 4d., valued at £22 11s. 5d.; cash in hand £24 4s. 8d.; cash at bank 3s. 9d.; cash in hands of solicitor £14; fixtures and fittings £103 17s. 6d., estimated to realise £50; and household furniture £113 17s. 6d., making a total of £522 5s. 9d., from which had to be deducted £32 4s. 10d. for preferential claims, leaving net assets of £490 0s. 11d. It was pointed out that in addition to the preferential claims appearing in the statement, there was a claim for income-tax for a substantial amount, but it was anticipated that it would be waived. It was reported that the debtor died in January, 1920, after having traded for about 18 years. The business had been continued, and the turnover had averaged about £25 a week. At the time of the death, the liabilities were returned at £1,266, with assets estimated £1,585. After a short discussion, the opinion was expressed that the assets should be immediately realised in the best manner possible by the executor through his agent, Mr. Thos. Bell, accountant and auditor, of 24 Grainger Street West, Newcastle-on-Tyne, and the proceeds distributed pro rata. The following are creditors:—Ayrton, Saunders & Co., Ltd., £40; Cupal, Ltd., £30; Coty (England), Ltd., £10; Goodall, Backhouse & Co., £10; Gibbs, D. & W., Ltd., £15; Kodak, Ltd., £32; May, Roberts & Co., Ltd., £161; Southall Bros. & Barclay, Ltd., £53; United Chemists' Association, Ltd., £20; Wigglesworth, Ltd., £17; Yardley & Co., Ltd., £28; creditors under £10 each, £213.

Bankruptcy Reports

Re William Linnell Ingham, trading as W. L. Ingham & Son, 1 The Cross, Street, Somerset, chemist and druggist.—The first meeting of creditors was held on March 20 at the Official Receiver's offices, 26 Baldwin Street, Bristol. The statement of affairs returned showed liabilities of £1,658 17s. 8d., and there was a deficiency of £1,064 17s. 10d. The debtor attributed his failure to loss through delay with regard to fixtures in the shop, competition, etc. Mr. Parkin S. Booth was appointed trustee.

Re Henry Matthew Alleyn, 42 Harrington Gardens, S.W.—This debtor attended recently before Mr. Registrar Warmington at the London Bankruptcy Court for public examination upon accounts showing liabilities £4,654 against assets expected to produce £115. He stated that a previous failure was recorded against him in July 1921, the liabilities then amounted to £72,404, and a dividend was paid to the creditors, but he obtained a discharge which became effective in June 1925. In July 1924 he formed Prunol, Ltd., with a nominal capital of £5,000, afterwards increased to £11,000, to which he sold for £250 in cash and 10,000 1s. ordinary shares his recipe, prescription, etc., for the manufacture of a medicinal preparation known as "Prunol"; he acted as managing director until March 1928, when he resigned. Then in October 1924 he formed Prunol Foreign Proprietary Ltd., with a nominal capital of £5,000, and sold to this company the foreign rights in his recipe, prescription, etc., for £100 in cash and 10,000 1s. ordinary shares; he acted as director of the company, but received nothing for his services after August 1927. He attributed his insolvency to the failure of Prunol, Ltd., heavy medical expenses, and to lack of regular income since early in 1927. The meeting was concluded.

Gazette

Partnership Dissolved

CARNALL, H. D., CARNALL, T. T., and CARNALL, P. L., 143 Lambeth Walk, London, S.E., retail chemists and druggists, under the style of Mason Brothers, so far as concerns T. T. Carnall and P. L. Carnall.

Bankruptcy Acts

ADJUDICATION

INGHAM, W. L., 1 The Cross, Street, Somerset, trading as W. L. Ingham & Son, chemist.

Ulster Retail Drug Trade Association

Annual Meeting

THE annual meeting of the Ulster Retail Drug Trade Association was held on March 20 in the Grand Central Hotel, Belfast, the president (Mr. D. A. Taylor) in the chair. Apologies for absence were received from Messrs. S. Dale (Londonderry), S. J. Hudson, G. Hamilton, Jas. Guiler, R. I. Edwards, and J. Macauley.

ANNUAL REPORTS

Mr. W. J. STEVENSON read the report, which included the following :—

The Committee once again desires to thank all the members for their support during the year and continued loyalty to the Association. There were fourteen committee meetings held, at which the attendance was good. The membership has been well maintained during the year.

Reference was made last year to the request to the Belfast Corporation for an Earlier Closing Order. A request was sent to the Council of the Corporation asking them to revoke the previous Order of 1912, and substitute therefor the hours as specified. The Council . . . duly granted the new Order, which came into force on August 10, 1928. Your Committee has been astonished at the attitude of some members in carrying out this Order. Perhaps the time at which the Order came into force was inappropriate, although this was not the fault of your Committee, who spent a great amount of time in conference with the officials at the City Hall and elsewhere.

Your Committee regrets that some members use trading stamps as a source of advertising; this, in its opinion, amounts to a discount, and is against the principles of the Association.

With regard to the sale of agricultural and horticultural poisons, it is regretted that in some instances licences have been granted to other traders, although there were chemists in the same town. Pressure ought to be brought on the Ministry of Home Affairs to ensure that the chemist is the proper channel for the sale of weed-killers and sheep-dip dressings.

The question of unqualified men trading in poisonous drugs and proprietary articles was discussed. A deputation interviewed the registrar, who gave his interpretation of the Poisons Act as it stands at present. It was evident that the Poisons Act required to be revised to meet the exigencies of licentiates in Northern Ireland. Subsequently, a deputation was appointed to interview the Council of the Pharmaceutical Society on this matter.

Your Committee, in conjunction with the Norwegian committee for the promotion of the consumption of cod-liver oil, issued a number of advertisements in the public Press, especially at the influenza period, on the use of cod-liver oil and other preparations.

Your Committee has taken a ballot in the prescribed method, and recommends the appointing of new members to the Committee, who will bring forward new ideas derived from actual experience, so that we may derive greater advantages from a closer contact with the best minds in the drug business.

Mr. W. J. RANKIN (treasurer) submitted the financial statement, which was of a satisfactory nature.

The PRESIDENT, in moving the adoption of the reports, said his year of office had passed very quickly. The work had been well done, thanks to the support of the Committee and the secretary. During the year they had sent deputations to Lurgan and Lisburn with a view to adjusting local differences. They had lost by death Mr. Tate, Mr. Morris, Mr. Manson, Mr. Walker, and Mr. Cherry. He was glad to see Mr. Lancashire and Mr. Abernethy back with them, and to know that Mr. Guiler was back to business again. Progress had been made with the amalgamation scheme, which they hoped would be an accomplished fact ere long. The Closing Order had not been received too well by some members, who apparently thought it was not necessary to close. Something would have to be done to protect the trade from the sale of poisons by unqualified persons. He understood the Pharmaceutical Society was considering the matter, and he hoped their conclusions would be of advantage to the trade. The president condemned the use of trading stamps as contrary to the basis of the Association. Unity in the trade was never more needed than at present, when so many new shops were opening and opposition was forthcoming from other sources. The president, in conclusion, thanked Mr. Stevenson and the Committee for their great help during the year.

Mr. W. J. HARDY, in seconding the motion, said the Pharmaceutical Society's Council had been up against the issue of licences to unqualified persons for the sale of poisons. They had taken action with the Home Office, and hoped that good results would follow. He was in favour of amalgamation, as there were too many organisations in Northern Ireland. He wished to congratulate the president on his conduct of the business during the year.

Mr. H. JOHNSTON criticised the expenditure as being rather high. Too many members were, he thought, a law unto themselves in the matter of prices. There should be a visiting committee to prevent price cutting.

Mr. CRAIL said that Mr. Johnston had no idea of the amount of work that was gone through.

Mr. H. LANCASHIRE congratulated the president and secretary on their work during the year. The expenditure was very small, considering what had been accomplished.

Mr. A. W. MANN thought that the Early Closing Order was chaos, for almost everybody was keeping open, be it legitimately or illegitimately. There was, in fact, a movement to revert to the old hours.

Mr. FRED STOREY said that the settlement of the amalgamation scheme was only a matter of arranging a few details. He hoped there would be no cutting of prices.

Mr. W. E. WILSON said the results from the advertising campaign were such that they should spend more in that way.

The PRESIDENT remarked that complaints of price cutting could not be investigated unless they were made.

The reports were adopted.

ELECTION OF OFFICERS AND COMMITTEE

The PRESIDENT proposed the election of Mr. John Adams as his successor in the chair. He would be the right man in the right place, and was very energetic in everything he undertook.

Mr. MANN seconded the motion, which was passed by acclamation.

Mr. ADAMS took the chair and returned thanks, observing that he felt the importance of the position, and would do his best to carry out the aims and objects of the Association.

Mr. C. B. Abernethy was appointed senior vice-president, and Mr. James McDowell junior vice-president. Mr. S. Dale (Londonderry) and Mr. Taylor were added to the list of honorary vice-presidents, Mr. Adams stating that had Mr. Dale been able to attend the meetings he would have been elected president.

Seven vacancies on the Committee were filled by Messrs. S. J. Hudson, R. Lenaghan, A. Steed, R. Andrews, John McDowell, W. J. Farmer, and T. J. Moffett, the retiring members being Messrs. J. J. Breakey, James McDowell, J. Guthrie, H. Crail, S. Orr, H. Todd and John Adams. The old members re-elected were :—Messrs. S. McLoughlin, W. R. Stinson, James Hamilton, W. H. McKinty, A. E. R. Davis, R. I. Edwards, C. Williamson, E. J. Roberts, F. Boyle, J. A. McRoberts, H. Todd and S. H. Forrest. The Committee from the wholesale section elected were Messrs. F. Moore (T. McMullan & Co.), A. Gamble (Shaw & Jamison), F. Storey (Fred Storey, Ltd.), and T. Elliott (Elliott, Thompson and Blair). Messrs. A. Wilson, W. E. Wilson, A. W. Mann, and S. McLoughlin were elected representatives to the Chamber of Trade.

Mr. W. E. Wilson and Mr. S. J. Hudson were elected secretaries; Mr. W. J. Rankin, hon. treasurer; Mr. W. Martin and Mr. T. Mitchell, auditors.

VALUE OF WINDOW DISPLAYS

Discussion took place on the question of a fee for window displays of manufacturers' specialities.

The PRESIDENT, Mr. MANN, Mr. W. E. WILSON, Mr. R. ANDREW, Mr. JAMES MCDOWELL, Mr. TAYLOR and Mr. JOHN MCDOWELL took part, expressing the view that as window displays give manufacturers facilities for showing off their articles, a substantial fee should be paid. Mr. STOREY pointed out that there was a great difference of position of windows in the city.

Government Purchases of Stamped Medicines

It is rather diverting to realise that the British Government is one of the largest patrons of the proprietary medicine business. The Board of Customs and Excise publish figures showing the income derived from the sale of medicine stamps, but the Minister of Health does not, with the same candour, advertise the amount which his Department spends on the proprietary articles which bear these stamps. A comparison of some of the statistics relating to these matters is of interest.

It is admitted that the cost of medicines supplied to the persons who benefit under the National Insurance scheme is greatly increased because proprietary remedies are prescribed in considerable numbers by Insurance practitioners. Probably a moderate estimate of the proportion which prescriptions for such medicaments bear to the total number of prescriptions issued is about 5 per cent. A Ministry of Health report states that during the year 1927 the total number of Insurance prescriptions dispensed by chemists was over 56,500,000 for England and Wales. The figures given in the 1929 *C. & D. Diary* show that the total value of medicine stamps sold in 1927 was over £1,285,000. If, therefore, we adopt the 5 per cent. estimate for proprietary Insurance prescriptions, and also allow an average value of 4d. each for every medicine stamp sold, we may accept as approximately accurate a deduction that the total value of the stamps bought at face value during 1927 by the Ministry of Health was about £50,000. In other words, the Ministry provided 4 per cent. of the income which the Board of Customs derived from this source. It is well known that the cost of the stamps on a proprietary medicine is passed on to the retail purchaser by the manufacturer. There is, therefore, an element of humour in the situation when it is understood that, although the Government sells the stamps to the manufacturer in the first instance, it buys 4 per cent. of them back at the same price when they are affixed to the manufactured article, so that all the labour and expense entailed by doing £50,000 worth of business through the post offices is undone or cancelled at similar expense and trouble by other business transacted through the chemists' shops.

An Estimate

But the Government does better than this even, for not only does it buy the stamps back from the manufacturer, but it buys his medicine as well—and at his own price. In fact, if again we adopt a conservative estimate and reckon one shilling as the ingredient cost of each prescription for a proprietary medicament, the Government puts £150,000 per year into the pockets of the proprietary-medicine makers. If we go one step further and add the cost of the dispensing fee and any out-of-pocket expenses to the ingredient cost and the price of the stamp, it would not be stretching probability too far to say that the British Government spends a quarter of a million annually on the proprietary medicines it employs in the treatment of Insurance patients.

It has been found possible in the past to secure exemption from some of the provisions of the Poison and Pharmacy Acts and the Dangerous Drugs Acts for prescriptions issued to insured persons. Would it not be possible, similarly, to exempt these prescriptions from the operations of the Medicine Stamp Acts and allow proprietary preparations so prescribed to go free from stamp duty? If this could be done, a substantial amount of money would be released for other purposes; in fact, the chemists' fund might be made permanently solvent. The Government long ago ceased to spend money on bottles; why should they continue to deplete the fund by buying medicine stamps, which have no useful part in medical treatment? As a matter of curiosity, one might perhaps formulate half a dozen questions bearing on this subject for an imaginary Member to put to an imaginary Minister of Health in the House of Commons.

(1) What was the total value of the proprietary medicines purchased by the Government during 1927?

(2) How does this cost compare with the total amount deducted from chemists' accounts for that year?

(3) How much was spent by the Government in 1927 in treating insured persons with remedies of which the composition was unknown to the doctors who prescribed them?

(4) What was the total cost to the Government in 1927 of the various proprietary gland tablets supplied to Insurance patients?

(5) Is it not still a matter of doubt whether preparations of organic substances administered in tablet form by the mouth have any real therapeutic value?

(6) What was the average price per pound paid by the Government in 1927 for ordinary liquid paraffin marketed under fancy names, and how many gallons were purchased in this way?

An economically minded taxpayer might be forgiven for indulging in a pensive moment after studying some of these figures, and the chemist whose bills were not paid in full might be led to wonder whether something could not be done about it.—Curious. (28/3).

Arara-Nut Oil

Brazilian interests are directing the attention of British oil-seed crushers to a possible new source of oil, and in the "Bulletin of the Imperial Institute," No. 4, 1928, are published the results of the examination of a sample of nuts which was recently sent to the Imperial Institute for investigation. The nuts were those of *Joannesia heveoides*, Ducke (N.O. Euphorbiaceæ), and are known in Brazil as "Castanha de Arara." A previous sample of Arara nuts apparently representing the same species was examined at the Imperial Institute in 1924. According to Teixeira's "Oleos Vegetaes Brasileiros," *J. heveoides* is a large tree occurring in the Oyapoe region and the middle Tapajoz River district. The fruit is a three-celled, dehiscent capsule, with a single seed ("nut") in each chamber and closely resembles that of *Hevea brasiliensis*, but is much larger. The fruit ripens from December to April. The present sample consisted of large, dark brown, oval nuts (seeds), from 2 to 2½ inches in length, and from 1⅝ to 1⅞ inch in diameter; the shell had a thickness of $\frac{1}{10}$ to $\frac{1}{8}$ inch. The nuts were composed of shell 55.2 per cent. and kernel 44.8 per cent. The average weight of the nut was 53.8 gm., and that of the kernel 24.1 gm., as compared with 59.7 and 27.6 gm. respectively in the case of the earlier sample. The kernels were found to contain 4.6 per cent. of moisture, and to yield, on extraction with light petroleum, 58.6 per cent. of oil, corresponding to a yield of 61.4 per cent. expressed on the moisture-free kernels. The kernels of the Arara nuts examined in 1924 contained 6.0 per cent. of moisture and furnished 57.3 per cent. of oil, equivalent to 61.0 per cent. in the moisture-free kernels. The oil as extracted by light petroleum was a pale yellow liquid, with a pleasant nutty odour. It was found to have the following constants, to which are added for comparison those obtained for the earlier sample.

	Present sample	*Previous sample*
Specific gravity at 15° C.	0.9239	0.9242
Refractive index at 20° C.	+1.467	+1.469
Acid value	2.1	0.4
Saponification value... ...	188.5	191.6
Iodine value	129.8	130.4
Unsaponifiable matter ...	0.48	0.5

A thin film of the oil exposed on glass required eleven days to dry, as compared with twelve days for the sample examined in 1924, and eight days for linseed oil. The residual meal, left after extraction of the kernels with light petroleum was a pale cream-coloured powder, with a faintly bitter taste and an odour somewhat resembling that of castor oil. The meal was found to contain a substance or substances of an alkaloidal nature. From these results it is concluded that the kernels furnish a high percentage of an oil which could be readily employed in soap-making. The oil has "semi-drying," properties, and might possibly be of use, after "boiling," for paint-manufacture in admixture with linseed oil. Owing to the fact that the kernels may possess toxic properties it is doubtful whether the oil, as obtained by expression, could be employed for edible purposes and physiological trials would be necessary to determine this point. The residual meal, rich in protein, resembles soya bean meal in general composition.

Personalities

MR. W. A. WILLIS, chemist and druggist, Seaton, Devonshire, has been elected a member of the committee of the local chamber of trade.

MR. W. B. FARADAY (Bristol-Myers Co., Cheapside, London, E.C.2) has been elected a member of the Mitcham Urban District Council.

MR. J. E. FRENCH, chemist and druggist, has been elected president, and MR. W. J. PEACOCK, chemist and druggist, a vice-president of the Sittingbourne Rotary Club.

MR. H. W. HARRIE, The Green, Twickenham, has been re-elected treasurer of the United Kingdom Commercial Travellers' Benefit Society, the twenty-seventh annual report of which shows a membership of 8,134 and an income of £75,215.

MR. R. CECIL OWEN, B.Sc., Chester, has been elected president of the local Rotary Club, of which he was for three years the secretary. Mr. Owen, who is a native of Chester, was educated at the Chester Technical School, and at Liverpool University. He was responsible for the formation of the Club in 1921. As secretary he has frequently given papers on music, science and "rotary." Mr. Owen has been secretary of the Chester Pharmacists' Association, and is, of course, well known to the many *C. & D.* subscribers who have enjoyed his guides to Conference excursions and descriptions of scenery of many types, in this country and abroad.



MR. R. CECIL OWEN, B.Sc.

MR. R. R. STOKES, who has represented the Anglo-American Oil Co., Ltd. (speciality department), for many years in the Southern Counties, has been appointed to a more important position with the company. The territory will be covered by Mr. John Moxon.

MR. E. D. PROUDLOCK (London representative of John W. Royle, Ltd., London, W.) was installed Worshipful Master of the Earl Roberts' Masonic Lodge on March 19. Among those present connected with the drug trade were Worshipful Brothers Percy Barrs, W. M. Cooper, John W. Royle, and Bros. F. E. Lever, Maile, Jones (Menley & James, Ltd.), Hayne, Tyrrill and Chesterman.

Trade Notes

POISON BOTTLES.—Weiss, Biheller & Brooks, Ltd., 70 Chiswell Street, London, E.C., elsewhere in this issue explain the advantages of machine-made over hand-made poison bottles.

TOSCA TOILET GOODS.—R. J. Reuter Co., Ltd., 69 Carter Lane, London, E.C.4, illustrate and give the retail prices of the Tosca series of toilet preparations in their advertisement in this issue

AN APRIL OFFER.—Milner & Coke, Ltd., manufacturing chemists, John Penn Street, London, S.E.13, give particulars in the advertisement pages of a special bonus parcel they are offering in connection with Greenwich lemonade.

A USEFUL GIFT.—Fairy Dyes, Ltd., 6 Well Road, Glasgow, are offering retailers a gift in the form of a window curtain. Applications should be sent to the above address or to the London depôt, 392 Upper Street, Islington, N.1.

VEGETABLE LECITHIN.—Fredk. Boehm, Ltd., 17 Jewry Street, London, E.C.3, have been appointed sole distributors of the vegetable lecithin manufactured by the Hansa-Muehle G.m.b.H., Hamburg, to which reference was made in the "Progress of Pharmacy" in the *C. & D.*, March 30 (p. 384).

POWDER PUFFS.—Faire Brothers & Co., Ltd., Leicester, call attention to their Sphere powder puffs, the pile on which, it is stated, is produced in such a way as to retain the powder so that the user can apply it evenly and without streaks. Chemists can obtain supplies through the usual wholesale houses.

OPHTHALMIC TRIAL CASES.—Baroux & Bion, manufacturing opticians, 2 Tower Royal, Cannon Street, London, E.C.4, are specialising in optical trial cases and frames, the products of Giroux-Guilbert, Paris. The cases are available in a variety of styles, sizes and prices, and an illustrated catalogue will be sent on request.

OTOSCLEROL.—Coates & Cooper, 41 Great Tower Street, London, E.C.3, have been appointed distributing agents for the United Kingdom and the Colonies for Otosclerol, a product of the Münchener Pharmaceutische Fabrik, used in the treatment of ear troubles. It is in tablet form and contains cimicifugin, bromides and phosphorus.

REX INSECTICIDE.—Tibo Products Co., Ltd., Audrey House, Ely Place, London, E.C.1, ask us to call the attention of chemists to the reduced prices of Rex liquid insect killer. In some recent announcements the wholesale price of the 8oz. size has been incorrectly given—it is as is printed elsewhere in this issue.

KAMBEROL. — Meggeson & Co., Ltd., Bermondsey, London, S.E.16, are the wholesale distributors for Kamberol, a new product which is stated to be very effective in preventing insect bites. Kamberol, it is claimed, will keep at bay for hours such formidable pests as malarial mosquitoes, tsetse flies and sand flies, so that its sale should be assured both in this country and the tropics. Kamberol is in the form of a cream; it is packed in tubes, which are enclosed in attractively designed cartons. Prices and other details are given in the advertisement pages.

Trade Mark Applications

The figures in parentheses refer to the classes in which the marks are grouped. A list of classes and particulars as to registration are given in "The Chemist and Druggist Diary," 1929, p. 333.

(*From "The Trade Marks Journal," March 20, 1929.*)

"JUVENTUTIS RENOVATIO" with representation of two figures modelling a face; "SENECTUTIS RETARDATIO" with design of "Father Time" and hand holding serpent; for preparations for treatment of the face and body (3). By Oreste Sinanide, 53 Sloane Street, London, S.W.1. 498,455/456.

"STRONGPORT"; for medicinal chemicals (3). By Indian Drug & Perfumery Co., 303 Juma Musjid, Bombay, India. 499,723.

"KOSMOFLOR"; for essential oils for use in perfumes (4). By Schimmel & Co., A.G., Miltitz, near Leipzig, Germany. 498,274. (Associated.)

"PALOMINE"; for surgical instruments, etc. (11). By Medical Surgical Sundries, Ltd., 97 Swinderley Road, Wembley, Middlesex. 498,297.

"AZOULE"; for surgical instruments, etc. (11). By Allen & Hanburys, Ltd., Plough Court, 37 Lombard Street, London, E.C.3. 499,964. (Associated.)

"DIETBIS" and "DIETBISK"; for food substances (42). By Peek, Frean & Co., Ltd., 158 Drummond Road, London, S.E.16. 499,545/621. (Associated.)

"ETHAVAN"; for all goods (42). By The Graesser Monsanto Chemical Works, Ltd., King William Street House, Arthur Street, London, E.C.4. 499,627.

"GOLD SEAL" with device of a seal ("Gold Seal" and seal device disclaimed); for mineral waters, etc. (44). By Clayton & Jowett, Ltd., 46 Wood Street, Liverpool. 497,114. (Associated.)

"PALMOLIVE," also label devices bearing word "Palmolive"; for soap (47) and for toilet preparations (48). By The Palmolive Co. of Canada, Ltd., 64 Natalie Street, Toronto, and The Palmolive Co. (of England), Ltd., 21-23 Eagle Street, High Holborn, London, W.C.1. 482,939/940/941/942. (Associated.)

"MENOPHENE" on oval shape: "CAMOMENTHE"; for perfumery, etc. (48). By A. J. Seward & Co., Ltd., Lotus Works, Miles Street, Vauxhall, London, S.W.8. 499,413/465.

Births

Notices for insertion in this column must be properly authenticated.

COPLEY.—At 87 High Street, Welling, Kent, on March 25, the wife of F. S. Copley, chemist and druggist, of a son.

Marriages

CONNELLY—GREEN.—At All Saints Church, Tooting, London, S.W., on April 1, Frederick Henry Connelly, chemist and druggist, to Rose May Green.

WALTERS—HUMBY.—At New Court Chapel, Tollington Park, London, N.4, on April 1, by the Rev. J. Alfred Kaye, assisted by the Rev. A. E. Richmond, M.A., B.D., John V. Walters, M.P.S., son of Mr. J. T. Walters, M.P.S., 23 Ridge Road, Hornsey, N.8, to Mary Joyce Humby, Stroud Green, N.4.

WINFREY—RUSSELL.—At Drumcar, co. Louth, on April 2, Richard Pattinson Winfrey, only son of Sir Richard Winfrey, Ph.C., Castor House, Peterborough, to Nora Margretta Russell, younger daughter of Mr. J. J. Russell, Ballygassan House, Dunleer.

Deaths

BLAIR.—At Brentford, on March 17, Mr. William John Blair, chemist and druggist, aged fifty.

BROWN.—At his residence, Sandfield, Cross o' Cliff Hill, Lincoln, Mr. Frederick Brown, chemist and druggist, managing director of the Lincoln and Midland Counties Drug Co., Ltd., Park Street, and formerly a member of the Lincoln and District Board of Guardians, aged seventy-six.

CROSKELL.—At Durham, recently, after a brief illness, Mr. James Croskell, retired chemist and druggist, aged eighty. Mr. Croskell, who carried on business in Durham for a long period, regularly followed the North Durham Foxhounds at one time. Later he took a keen interest in hunting with the Durham Beagles, and afterwards with the Durham foot harriers. He travelled all over England as a cyclist.

ELMER.—At Barnoldswick, on April 1, Mr. Arthur Thomas Elmer, senior director of Elmer's, Ltd., chemists, Newtown, Barnoldswick, aged fifty-one. Mr. Elmer, who was a native of Halifax, went to Barnoldswick twenty-seven years ago and built up a successful business. His treatment of sick animals earned him a widespread reputation, and he was president of the local tradesmen's association for five years.

HAY.—At Gosforth, recently, Mr. James Alfred Hay, chemist and druggist. Mr. Hay, who qualified in 1902, commenced business in Gosforth in 1908.

HINDLE.—At Blackburn, on March 27, Mr. James Edgar Hindle, son of the late Mr. H. Hindle, chemist and druggist, 66 King Street and 132 Bank Top, aged fifty-eight.

HITCHCOCK.—At 15 Waverley Avenue, Beeston, Nottingham, on March 20, Mr. James Hitchcock, chemist and druggist, aged eighty-five. Mr. Hitchcock carried on business at Stonebroom, Duffield and Riddings, and retired about fifteen years ago.

HORNE.—At his residence, 64 Woodlands Road, Glasgow, on April 1, suddenly, Mr. Thomas Horne, chemist and druggist, aged sixty-three. Mr. Horne, who was a native of Kinross, carried on business at Paisley for a long period. He leaves a widow, two sons and a daughter.

HOWORTH.—At Plumstead, on March 12, Mr. Christian William Howorth, chemist and druggist, aged forty-eight.

LAYMAN.—At 11 Victoria Mansions, Eastbourne, on March 29, Marianna Louise Layman, widow of the late Mr. Frederick Noel Layman (Wright, Layman & Umney, Ltd., manufacturing chemists, London, S.E.1), aged sixty-nine.

LONGDIN.—At Scarborough, on March 22, Mr. John Silas Longdin, chemist and druggist (T. W. Longdin & Son, chemists, 19 Eastborough), aged thirty-eight. The business of Messrs. Longdin & Son, established in 1837, was acquired by Mr. T. W. Longdin in 1891. Mr. J. S. Longdin served his apprenticeship to his father, and qualified in 1913. He was on active service in France during the European war; on demobilisation in 1919 he was taken into partnership in the business.

MARCH.—At his residence, 5 Rutland Terrace, Stamford, on March 22, Mr. Richard March, retired chemist and druggist, aged seventy-three. Mr. March was a son of the late Mr. Frederick March, who for many years carried on a pharmacy in High Street, Stamford. In 1892 Mr. Richard March succeeded to his father's business, which was afterwards taken over by his son-in-law, Mr. Selby Ennals, and was eventually acquired by Boots, Ltd. Mr. March served for nearly twenty years on the Stamford Town Council, becoming an alderman, and was a member of several other public bodies.

MORRISON.—At 66 Kirkland Street, Glasgow, on March 20, Mr. James Alexander Morrison, chemist and druggist. Mr. Morrison qualified in 1904.

STEVENSON.—At 17 High Street, Dundee, on March 30, Mr. John Stevenson, chemist and druggist. Mr. Stevenson, who qualified in 1907, succeeded Mr. John Forsyth, chemist and druggist, in business in 1923.

THOMAS.—At Cardiff, recently, Miss Dorothea L. S. Thomas, niece of Mr. Charles Fargher, chemist and druggist, 97 Newport Road. At the funeral, Mr. J. D. Jenkins (president of the Cardiff Pharmacists' Association), Mr. H. F. Davis, and Mr. E. G. Howell attended as representatives of local pharmacy; Mr. and Mrs. S. W. Hague, Mr. and Mrs. G. Thomson Williams, Mr. and Mrs. F. Taylor, and Mr. Jabez Jones and family sent floral tributes.

THOMAS.—At 29 Bangor Street, Cardiff, on March 23, Mr. William Thomas, chemist and druggist. The interment took place at Cardiff Cemetery on March 27; among those present were Mr. W. C. S. Thomas, chemist and druggist, of London, recently secretary of the Cardiff Pharmacists' Association. The Association was represented by Mr. E. A. Ward, Mr. J. T. Day, Mr. E. Poole, and Mr. J. Lee Jones.

WARBURTON.—On March 25, Mr. Frank Warburton (Harrison, Blair & Co., Ltd., manufacturing chemists, Kearsley), aged sixty-eight.

YUILL.—At Glasgow, on March 18, Mr. Stephen Yuill, chemist and druggist, aged sixty-nine.

Business Changes

MR. JOHN MCLAREN, chemist and druggist, is opening a business in Rosslyn Street, Kirkcaldy.

MR. N. JEFFERSON, chemist and druggist, has opened a business at 85 Columbus Ravine, Scarborough.

MR. A. E. THORPE, chemist and druggist, has recently opened a business at 60 Chapel Street, Levenshulme, Manchester.

MR. CHARLES S. BOYNE, chemist and druggist, has acquired the business of Mr. A. O. Wilson, Parkside Place, Bellingham, Northumberland.

Information Department

INFORMATION WANTED

Postal or telephone information with respect to makers or first-hand suppliers of the undermentioned articles will be appreciated.

L/263. Coloseptic (London agency)

M/263. Dr. Leon Normet's serum

E/263. Egg dyes

W/293. Glutrim (London source)

C/24. Elixir Soret

E/34. Kimosina (for indigestion)

E/24. Radum microbe killer

Observations and Reflections

By Xrayser III

In Your Survey

of the activities of the Council of the Pharmaceutical Society (*C. & D.*, March 30, p. 393), you were well advised to emphasise the fact that the reports of the work of the Council are often sadly lacking in information. We can only surmise that many things of interest to all of us are dealt with by the Council, no doubt in an eminently satisfactory manner, but unfortunately without any public record. This indicates a weakness in the Society's arrangements for propaganda work, and it ought to receive the attention of the Organisation Committee. We who are members of the Society are surely entitled to know not only that the Council is fully occupied with business of importance, but also what that business is, when it is not of such a nature that it would be dangerous or indiscreet to make any disclosure. It is not unhealthy curiosity that influences those who want to know, but a desire to have confirmation of what many believe to be the fact, that the Council as a whole is worthy of our continued confidence.

Useful Points

were brought out by Mr. A. H. Jenkin in the course of his recent talk on some problems in dispensing (*C. & D.*, March 30, p. 373). It is the first time, within my recollection, that attention has been directed to the fatigue factor as possibly accounting for errors in National Health Insurance dispensing. With the great bulk of the prescriptions arriving and having to be dispensed at the end of the business day, it should not be surprising if dispensers are not always so alert as they might be. As Mr. Jenkin put it, the mind does not function so rapidly towards the close of the hours of service; and there is an instinctive, if subconscious, feeling that haste is more necessary than it would have been earlier in the day. It is, I think, putting it too strongly to state that carelessness is apt to develop, because carelessness hardly seems the right word to use. Speeding up in dispensing is, however, always likely to induce a certain amount of flurry, with the result that there is increased risk of errors of omission and commission. The mind becomes overloaded with detail at a time when the brain, in common with the rest of the body, is suffering from fatigue, and it is not altogether surprising that some of the innumerable matters of detail encountered in the course of dispensing many prescriptions should be misinterpreted on occasion. Another useful point made by Mr. Jenkin was that stock solutions should preferably be all of one standard strength and that not too concentrated. There is a great temptation to make stock solutions as strong as possible, but variability in the degree of concentration is apt to lead to error, particularly when the dispenser is in a hurry. It also seems to me unwise to make stock solutions which are not likely to be used up quickly, as the tendency to evaporation of the solvent and consequent increase in the concentration of the solution naturally becomes more pronounced.

A Good Case,

according to Mr. H. Brindle, can be made out for the preparation of more galenicals than are usually made in most pharmacies at the present time (*C. & D.*, March 30, p. 373), but it is to be feared that a better professional spirit must prevail among chemists and druggists before anything like general practice in this respect is reverted to. The present-day tendency is to buy everything ready made as far as possible, and to occupy the time thus saved in selling goods. Modern salesmanship ideas leave no room for making or putting up what one has to sell, and increased turnover is regarded as being of vastly greater importance than the proper training of apprentices. For the making of galenicals, the use of volumetric apparatus, and much besides that apprentices need to learn, there may soon be no alternative to instruction in schools of pharmacy except spending some time in the service of a wholesale house. Those who have been most disposed to object to apprenticeship being served in a wholesale house can hardly have given consideration to the fact that it may soon be impossible to learn practical pharmacy, as our predecessors understood it, except in the laboratories of wholesale houses It would be interesting, if Mr. Brindle would furnish a list of galenicals which it would not be unprofitable for us to make for ourselves.

A Striking Revival

of interest in the literature of alchemy has taken place during recent years. One of our leading literary periodicals has recently given its premier position to an article of five columns' length on "Alchemy," containing notices of six important works treating of alchemical matters, all of which have been published during the last six years. Dr. Charles Singer and his wife, and Dr. Holmyard, of Clifton College, are doing much to place the study of the hermetic science upon a better foundation than it has hitherto had provided for it by those who have treated it as a compound of chemical mysteries and transcendentalism. Dr. Holmyard's wide acquaintance with Arabic science and Arabic literature gives to his published studies a value for English readers which encourages them to regard with confidence the new knowledge gained concerning the so-called Geber, the origin of the Tabula Smaragdina and cognate matters; at the same time they feel such researches are not being left entirely to Continental students. It has for long been suspected that Geber was a mythical person, but it now seems tolerably certain that he existed in the flesh. It has been generally thought by students that the Emerald Table (Tabula Smaragdina) was a forgery; Thomas Thomson, in his "History of Chemistry," said that it bore "all the marks of a forgery of the fifteenth century," but evidence is forthcoming which indicates that perhaps after all scepticism is not the right attitude; an open mind is to be preferred.

Tabula Smaragdina,

the Emerald Table, is the central pivot on which revolves the whole of the teachings of the adepts in alchemy during the last 500 years. Its origin is attributed to Hermes Trismegistus, the fabulous founder of alchemy. Whatever may have been its origin, the inscription upon it, which was said to be in the Phœnician language, is in such cryptic terms that there is small wonder that followers of the occult came to consider it of the highest importance. There are thirteen declarations, of which the second to the eighth are as follows (Thomson's translation from the Latin):—"2—What is below is like that which is above, and what is above is similar to that which is below, to accomplish the miracles of one thing; 3—And as all things were produced by the meditation of one Being, so all things were produced from this one thing by adaptation; 4—Its father is *Sol*, its mother *Luna*; the wind carried it in its belly, the earth is its nurse; 5—It is the cause of all perfection throughout the whole world; 6—Its power is perfect, if it be changed into earth; 7—Separate the earth from the fire, the subtile from the gross, acting prudently and with judgment; 8—Ascend with the greatest sagacity from the earth to heaven, and then again descend to the earth, and unite together the powers of things superior and things inferior. Thus you will possess the glory of the whole world; and all obscurity will fly far away from you." The interpretation of this work seems to require a clue of some kind. If such existed it is probably lost for ever; but the alchemists of the Middle Ages seem to have been agreed that it had reference to the universal medicine. The true origin of this remarkable production is still as mysterious as it ever was; but Dr. Holmyard has shown ("Nature," October 6, 1923) that it was certainly known long anterior to the fifteenth century, and he states that "there can be no doubt that a version in Greek was known to Jabir" (Jabir ibn Hayyan —the so-called Geber), who lived in the latter half of the eighth century. Dr. Holmyard says further that it is probable that the Emerald Table will have to be antedated by twelve hundred years, as a Greek form is probable "in the highest degree." The history of alchemy is becoming increasingly interesting.



Active and intensive propaganda is being carried out with the Medical Profession for the following Trade Mark Products :

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Editorial Articles

Then and Now: 1908—1929

LOOKING back, we see that in our issue of April 10, 1909, the Poisons and Pharmacy Act, 1908, was described by "Xrayser" as a new era in British pharmacy. The Act received the royal assent on December 21, 1908, and came into operation on April 1, 1909. London chemists signalised the event by giving a dinner to certain leaders of pharmacy. The chairman at this function was Mr. (afterwards Sir) William S. Glyn-Jones, vice-president of the London Chemists' Association, the president of which, the late Mr. T. H. W. Idris, was one of the principal guests. It is interesting to note the names of some of those present: R. Winfrey, R. A. Robinson, Peter MacEwan, R. Feaver Clarke, Miss Buchanan, Mrs. Freke, R. Bremridge, E. White, F. W. Gamble, W. J. U. Woolcock, and A. Higgs. Looking at the list as a whole it is remarkable how many of those then participating have passed into the shadows. In his reply to the toast of "The Guests," Mr. (now Sir Richard) Winfrey concluded by remarking, "I can say very warmly that I trust this Act of Parliament will be of immense service to the pharmacists of this country." And Mr. Idris, in his speech, added: "I hope to see the time when laws for the public safety will provide the complete separation of prescribing and dispensing, and when pharmacists will become a recognised grade of the medical profession." It is curious that this very Act of 1908 dispelled any such dream. Pharmacy became more diverse in its merchandising than ever. The *personnel* of the Pharmaceutical Society's Council, too, has changed remarkably, only one of the members of 1909 remaining to-day—Mr. Philip F. Rowsell. One other feature of that Act of 1908 is worth noting: out of the welter and controversy a young man, under thirty, was nominated for the Council election contest in 1909, and in his remarks when the announcement was made (at a Thames Valley dinner) he said: "Although a Square man (school of pharmacy) he stood as an independent candidate; and while confessing youth, he would emphasise that young blood is what many members of the Pharmaceutical Society want to see infused into the Council." That young man was elected to the first position at the subsequent election: his name was E. T. Neathercoat, subsequently five times vice-president and four times president of the Society within fifteen years—which surely constituted a record. Mr. Neathercoat is now a candidate for the Parliamentary election in the present year on the twenty-first anniversary of the passing of the Act which brought him into the public life of pharmacy. It may be an omen for a Bill which may follow from the proceedings of the Inter-Departmental Committee of Inquiry on which he represented the Pharmaceutical Society's Council. The late Mr. J. Rymer Young was the leader and president in his third term of office. He had travelled through the country to create an atmosphere favourable to a Pharmacy Act designed to remove anomalies from that of 1868. His companion was Mr. William S. Glyn-Jones, not yet in Parliament, but acting as parliamentary secretary to the Society. In December 1908 pharmacists

compromised over this Poisons and Pharmacy Act, and in the hurry admitted more than was ever intended. We might ask whether it was worth while: but after all this time no satisfactory answer can be given. Corporate pharmacy acquired a legal entity, and the personal qualification was de-valuated, the pharmacist in many cases being reduced to the position of a hireling. The Act created a clause which later rent pharmacy in twain, and left a visible flaw in our qualification on the Register of Chemists and Druggists. It admitted distribution of poison by licensed persons, and magnified the power of the Board of Agriculture to force its opinions on the poisons laws of this country to suit a specific purpose. The chief advantage was seen later in the National Health Insurance Act of 1911, when corporate pharmacy united with personal qualification to secure the separation of dispensing from prescribing so far as insured persons were affected. It was a common expression of Sir William Glyn-Jones that the Act was worth while for this thing alone. It is interesting to note that "Xrayser" (the late Mr. A. C. Wootton) remarked at the time: "After all that has been done and said no one can say what is the business of a chemist and druggist." This was one of the last questions which vexed the spirit of the man who did most to get the Poisons and Pharmacy Act, 1908, passed. In giving evidence before the Pharmacy Acts Inter-Departmental Committee on his last return from Canada, he re-echoed "What is the business of a chemist and druggist?" and suggested to the Committee that it should give a definition. Will it? The expectations from the 1908 Act were high. No one can recall or even read nowadays what was then said without being tinged with disappointment that so little good actually came out of five years' travail. There was an orgy of speech-making and strenuous propaganda, with much bitterness of spirit, but little organised effort against wild-cat schemes. We cannot blame the Act for the element of failure which has dogged the agricultural and horticultural poisons or the poisonous substances. The faults are inherent in the methods of administration: what is general in application is no one's business in particular. This method of faulty administration and its consequences contain a warning full of significance to pharmacy at the present juncture, and no opportunity should be lost of driving it home. The new Poisons Schedules removed many of the flaws of 1868, but perpetuated anomalies which might easily have been cleared away had the thought necessary to do so not been obscured by controversial questions of corporate pharmacy and the interested claim of seedsmen through their Parliamentary spokesman to distribute poisonous weed-killers. The first defeat of the Society's Council in the law courts over this Act came very early, in the case of Society v. Mercer, when the term "pharmacy" was held to be common property—in its significance only a little less deplorable than the decision in 1880 over the London and Provincial Supply Association, when the term "person" was held not to include "persons." There was a *prima-facie* case for an amending Bill, but the Council missed its opportunity as on the previous occasion, and the evil remains. Twenty-one years after, we find the completion of a standard curriculum, the powers for which were granted in the 1908 Act. It has been a long journey, and we must await the results, though in many respects we appear to have missed the tide. A side-issue arose within the first month of the Act, in that the exhibition of the certificate in every shop kept open for the sale of poisons was made a pretence by the Council to introduce annual registration; it was frustrated by the late Mr. Peter MacEwan, then Editor of THE CHEMIST AND DRUGGIST, when he secured counsel's opinion that the certificate of qualification fulfilled the requirements. Like all the Pharmacy Acts, that of 1908 has been a mixed blessing. Some things we could do without, and many other things we still hunger after. The lesson this year is obvious. In 1908 we had two pharmacists in the House of Commons, and as a result of the controversy over the Act a parliamentary fund was instituted in order to get Sir William Glyn-Jones into the House. On this occasion we are hoping to get better results from the general election, and one thing must be credited to the forethought of our present leaders in the plans being made. Then it was practically a one-man show, and Sir William Glyn-Jones had to bear the brunt. The president of the society was an able man, but quite unable to sustain the rôle expected; the deficiencies, fortunately, were made good by his parliamentary secretary, who was undoubtedly the ablest publicist pharmacy has known, and a platform speaker capable of carrying the mass with his Celtic fervour. Have we anyone who can lead, anyone who can blaze the trail and secure recognition of our demands from the Government's departmental chiefs responsible for devising new pharmacy law? The situation is piquant, as several fancy themselves to be born leaders of men, though most of them have yet to cut their wisdom teeth. The leadership we want is not fancy, nor is it a mere passing ambition to reach the highest position in pharmacy. We must analyse keenly a man's record, so as to find out whether he can handle big business, or is merely a querulous or a placid talker. Has a man such confidence in himself as to compel it from others? Probably, in parliamentary labours, what the Americans call "a good mixer" embodies the best virtue of all. Hardest of all, can the man spend sleepless nights for the service and still retain the faith which knows not defeat and may yet remove mountains? Our shortcomings in 1908 were largely those of opportunism based on insufficient faith and unity in the supporting army. That must not arise again; the failure which may issue from any prospective legislation will strike deeper and more surely than any previous failure in pharmacy. In many respects, the Pharmaceutical Society's Council, in the character and stability of its members, differs little from that of 1908. They failed in dependence on two or three men of striking character and personality. We have similar elements to-day, but unfortunately there is a trace in several instances of personal as distinct from public interest. That is a pity, and we hope it will be put on one side, for lobbying in the House of Commons will be more fruitful than public meetings, and requires more *savoir faire*. This coming of age of the Poisons and Pharmacy Act, 1908, brings mixed feelings; but if we can focus attention on the need of the hour in pharmacy, we shall not have laboured in vain.

The Mercury Outlook

ADMITTEDLY there has been stability in the mercury market for several months past, or since the Central Selling Office of the Italo-Spanish Combine was set up in October last, and the arrangements for the regulation of the output came into force. The spot London quotation by the end of that month was adjusted at about £23 per bottle, less the usual discount of 3 per cent., but under a liberal supply gradual concessions were made by importers down to about £22 5s. over the end of the year. Since then there has been virtually no further change, and it is difficult to imagine how the price could have been eased much further, as importers have been up against the "pegged" f.o.b. quotation of the Combine of £21 15s. per bottle. This, therefore, confirms the view expressed in our issue of January 26 last (pp. 100-101), which suggested the continuation of a stable market with spot supplies in strong hands, and the likelihood of adherence to a firm policy both by producers and merchant interests. Moreover, the statement was made that by the time new production at the Spanish mines begins to reach full dimensions within a

month of two, the unsold surplus available in the consuming markets stood a good chance of being considerably reduced. So far as London is concerned, this is precisely what has happened. The statistical position here, in any case, has been steadily strengthened, due to the fact that only trivial quantities have been actually imported for the three months to the end of February last; in fact, there were no arrivals in that month, and, moreover, within that three months' period 1,403 bottles were re-exported. Therefore, taking into consideration the filling of the usual home needs, surplus stocks held in London must have been materially reduced, and presumably to the extent of well over 4,000 bottles. We give below the equivalent of the official returns covering the first two months of the year, with comparisons for the two preceding years:—

Bottles	1927	1928	1929
U.K. imports, February ..	1,647	79	Nil
,, imports, Jan.-Feb. ..	3,618	793	311
,, re-exports, February ..	66	723	654
,, re-exports, Jan.-Feb. ..	189	898	1,124
,, net imports, Jan.-Feb.	3,429	*26	*813

* Net re-exports.

The figures for January to February this year are particularly striking, inasmuch as this country has been re-exporting on balance, as was already the case for December last. The depletion of stocks to the extent suggested above is certainly not favouring easier conditions, but does not necessarily mean that the spot price will advance. Possibly a stationary market may continue for some time, while we mentioned recently in our Trade Report that America had felt the need for importing more freely again in order to supplement the domestic supply which had been booked up over a certain period. The fact may be recalled that the current spot value is only just a little below that ruling at this time last year, which was remarkably well sustained until towards mid-summer, but the market subsequently gave way to about £20 5s. near the end of July, when the position here was made rather artificial by "bearing" tactics presumably in anticipation of a move being made by the mines to dispose of their accumulation after the usual suspension of mine operations in Spain. In August, however, there ensued a very sharp advance, which was continued, with the spot price climbing up to £25 10s. in September, under a sudden great pressure of demand from all quarters following on reports of the virtual dispersal of the first-hand surplus. The stringent aspect of the market during August and September was due to the control exercised by the larger merchant interests over spot supplies in the absence of further offers from the mines pending developments over the late autumn, when the market inevitably became adjusted on the f.o.b. Combine price being fixed at £21 15s., or less than had been expected. The situation now differs essentially in this, that since then there has been a close regulation of mine operations. There has been, at the same time, no doubt the usual seasonal accumulation of stocks at the mines; but it remains to be seen on what basis the Combine will feel disposed eventually to negotiate with merchant interests. The course of the market obviously chiefly depends on this, apart, perhaps, from any possible influence bearing on the attitude of the Combine in respect of the increasing production chiefly in America, and also in Mexico. Our imports last year were exceptionally big at 33,463 bottles, or the largest since the year 1923, when they amounted to 34,351 bottles, against which re-exports were made of 5,565 bottles and 16,200 bottles respectively. The net receipts for last year thus totalled close on 28,000 bottles, and there is now apparently only a limited surplus still available owing to the negligible quantities accounted for during three months to February 28. Assuming, as we are told, that the Spanish and Italian interests are adequately financed, the possibility of selling pressure in that direction may be considered rather remote.

Pharmaceutical Chemicals Market

THE recent sudden and very considerable advance in prices of a number of the leading products in the pharmaceutical chemicals market notified in our reports during the past fortnight are the result of agreement between the chief Continental producers and certain home makers. For some months past, spot prices of the products affected have obviously been well under cost of production, and certainly below world prices. The fierce competition amongst Continental makers for business in this market in those products not produced here had brought values down to pre-war levels. For instance, business in such lines as sulphonal, methyl sulphonal, hexamine, phenacetin and phenazone had for a long time past been unremunerative to the foreign makers. The home makers of salicylates and aspirin have also experienced the same trouble, the competition being not only from imports, but, to no little extent, between home producers themselves. Agreements as to selling prices fixed up between Continental and home makers are, from past experience, difficult to maintain, and if such conditions now control certain markets, it is not wise to take it for granted they will hold good for any length of time. As to the new prices of those products for which this market draws its supplies solely either from home or Continental makers, such as salicylic acid B.P. and sulphonal respectively, there is fair reason to expect the new and higher values to hold for some months ahead. It is learned from a usually reliable source that—at least, so far as Continental supplies are concerned—prices for some other products are likely to advance in the near future. While these developments may at first sight seem to be rather unreasonable and the outcome of the formation of still further syndicates and co-operation, it must not be forgotten that the recent extremely low levels of prices obtaining in this market could not continue to operate indefinitely, and that in practically every instance the prices now quoted on this market compare very favourably with world values.

Corner for Students

Conducted by Leonard Dobbin, Ph.D.

Communications should be addressed "Corner for Students, 'The Chemist and Druggist,' 42 Cannon Street, London, E.C.4."

QUALITATIVE ANALYSIS

A MIXTURE of not more than three salts will form the subject of the next exercise in qualitative analysis. The mixture may contain metallic and acidic radicals occurring in the British Pharmacopœia, or any of the commoner radicals not mentioned in that work, and is to be submitted to a thorough systematic examination, all its constituents are to be detected, and proof is to be given that the substances detected are the only constituents of the mixture.

Students' applications for portions of the mixture of salts (accompanied by a *stamped and addressed envelope*, not a stamp merely) will be received up to Tuesday, April 9, on which day the samples will be posted. Students' reports will be received up to Saturday, April 20. Each report should contain a concise account of the work done, and should include a list of the constituents detected. In this list any substance regarded as an accidental impurity should be distinguished from the essential constituents of the salts composing the mixture.

The analysis announced above forms the final exercise in the analytical tournament for the current winter session. The usual monthly first and second prizes in this series of analyses will be awarded only to apprentices or assistants who are preparing for the Qualifying examination of the Pharmaceutical Society of Great Britain or of Ireland, which fact *must be attested on their reports.*

As a result of a whist drive recently held by the Walthamstow and District Pharmaceutical Association, the sum of £14 has been forwarded to the Pharmaceutical Society's Benevolent Fund.

Pharmaceutical Society of Great Britain

Council Meeting

A MEETING of the Council was held at 16 Bloomsbury Square, London, W.C.1, on April 3, Mr. Herbert Skinner (president) in the chair. All the members were present, with the exception of Messrs. Marns and Neathercoat.

ELECTIONS AND RESTORATIONS

Twenty-three persons were elected members of the Society and twenty persons as student-associates. A number of members were restored to the Society. The Registrar reported that ninety-four persons had been registered as apprentices or students.

NOMINATIONS FOR COUNCIL

The secretary reported that seventeen nominations bad been received for the seven vacant seats on the Council, and that the following had signified their willingness to accept office if elected :—

Atkin, John Albert Alban, London
Attwell, Percy Hillman, Cranleigh
Barrs, Percy, London
Bilson, Frederic Eastall, Bournemouth
Deacon, Walter, Bridgwater
Eason, Samuel Bainbridge, Cardiff
Heathfield, Harold George, Colchester
Hines, Frank Gladstone, York
Humphrey, John Thurlbeck, London
Jenkin, Arthur Henry, London
Lees, William Donaldson, West Hartlepool
McNeal, James Fallows, Eastbourne
Melhuish, Andrew Ralph, London
Padget, William Henry, Newport, Mon.
Rowsell, Philip Foale, Exeter
Simmons, Edward Henry, Manchester

The following bad not expressed his willingness to accept office :—

French, John Edward, Sittingbourne.

AUDITORS NOMINATED

The present auditors were nominated for election, and had expressed tbeir willingness to accept office if elected.

ANNUAL FINANCIAL STATEMENT

The TREASURER, moving the adoption of the annual statement of accounts [printed in abstract on p. 419.—EDITOR], said that the members would see that the Society had had a reasonably prosperous year again, there being a surplus of £2,558. The income from subscriptions was again slightly up, being £1,000 higher than the preceding year, while the income from examinations was also higher by about £3,000. Registration fees accounted for £2,589, which, he thought, was also a little more than the previous year. The School of Pharmacy, which had cost £4,000, remained about the same as the previous year, and the income from interest and investments was a little higher.

Mr. SARGEANT seconded, and the report was approved and adopted.

EXAMINATIONS IN EDINBURGH

The Privy Council forwarded a copy of a report by Professor Ralph Stockman on the examinations held in Edinburgh during the year ended March 31, 1929. The following, apart from the Government visitor's explanation of the scope of the examinations, are the principal passages:—

Preliminary Scientific Examination.—After August 1, 1929, there is to be a written and a practical examination in all three subjects, and the Council of the Society might usefully take the opportunity to revise the schedules in certain details. Elementary organic chemistry should be included in the examination, and tho requirements for quantitative titration might with advantage be extended. The examination in physics is of a somewhat superficial character compared to those in botany and chemistry.

Chemist and Druggist Qualifying Examination.—The number of candidates rejected in pharmacy is surprising—247 in all or 37 per cent.—and seems to point to something seriously amiss with their training. The prescriptions they were asked to dispense were of an ordinary routine kind requiring no very special experience or skill, and the work of the examination generally was much as they might be called upon to do in the ordinary course of a day's business. In relation to the general public this is the important part of the pharmacist's calling, yet the results of the examination disclose in too many instances a want of accuracy and skill and neatness and a lack of technical training. Some of them had very little Latin, and showed much ignorance even of prescription Latin. I satisfied myself that the standard of the examiners was in every way reasonable and not too severe.

Pharmaceutical Chemist Qualifying Examination.—The examination . . . lasts nine days with twenty-four hours devoted to answering written questions and thirty hours of practical work. Both physically and mentally it puts a severe strain on the candidates, and unless their homes happen to be in Edinburgh the pecuniary strain is also considerable. The number of written papers as well as the time allotted to the practical examinations seem to be in excess of what is necessary to test a candidate's knowledge of the subjects, and experienced examiners could probably arrive at this by means of a less elaborate and prolonged examination. The time allowed for answering four written questions in forensic pharmacy (one hour) seemed to me too short.

In each paper set in botany, chemistry, pharmacognosy and pharmacy there is one question either in the French or German language—eight questions in all—along with a note that this question must be answered. In the chemistry papers tho note runs—"Answer *six* questions, of which one must be No. 8. If No. 8 be not attempted, only five questions will be marked." It does not seem quite fair to the candidate that his knowledge of chemistry or pharmacy should be measured in this drastic manner by his knowledge of two foreign languages, as one may be an expert chemist or pharmacist without knowing either language, and might be able to answer the questions creditably if they were put in English. There would be no unfairness in allowing additional marks for a knowledge of these languages, but to deduct marks for a want of this knowledge seems to bear hardly on the candidate in a purely professional examination on technical subjects. Abstracts of all important foreign papers sufficiently full for most practical purposes are published in the corresponding English journals, and hence a knowledge of these other languages can hardly be regarded as indispensable to a pharmaceutical chemist, and on that account made a compulsory part of his qualifying examination. At the examinations candidates were not allowed the use of a French or German dictionary, although in real life such help is usually accessible to the laboratory worker should he happen to need it. The arrangements made for the examinations and tho way in which they were conducted were excellent, although the laboratory space for practical work in chemistry and pharmacy is somewhat cramped.

The PRESIDENT's suggestion that the report should be referred to the Education Committee was adopted.

A COMING CONFERENCE

Mr. PECK reported on the arrangements for the Fifth International Conference of Military Medicine and Pharmacy. He said that at the last meeting of the Organisation Committee it was stated that on May 10 there would be three meetings at which papers would be read. One of these was a pharmaceutical paper on "The Physical and Chemical Analysis of Glass and Rubber Ware." The British Medical Association were unable to provide sufficient accommodation for all the meetings, and he had been asked whether the Pharmaceutical Society would be willing to allow one meeting to be held in the Society's rooms. Subject to the Council's permission he had agreed to the proposal. Afterwards the visitors would have an excellent opportunity of visiting the Museum, Laboratories and the School.

The PRESIDENT said he thougbt the request was quite reasonable.

Mr. PECK added that he hoped as many as possible of the members of the Council would be present, and especially those with "the gift of tongues," for thirty-eight nationalities would be represented.

EDUCATION COMMITTEE

The report of the Education Committee showed that a number of schools had been recognised for the teaching of specified subjects in connection with the Society's examinations. The Committee bad been considering whether it was advisable to hold an educational meeting

in Dublin at the Dublin Conference. They found that the early date of the Conference would make it difficult for a number of pharmacy teachers to attend, and in view of this considered it inadvisable to hold an educational meeting at Dublin. The report was adopted.

Benevolent Fund

The report of the Benevolent Fund Committee showed that seven applications had been received, and grants made ranging from £13 to £30. The following special contributions were announced:—Leicestershire Branch, £17; Walthamstow and District Pharmaceutical Association, £14; Bedfordshire Branch, £8; Mr. and Mrs. Freke, £7 7s.; E. Griffiths Hughes, Ltd., £5 5s.; Warwick Branch, £5 5s.; Gloucester Branch, £4; Portsmouth Pharmacists' Association, £3 3s.; C. W. Collins, £2; Stirling and District Chemists, £1 6s.; S. Bastow, £1 2s.; F. J. Norman, £1 1s. 6d.; Birmingham Pharmaceutical Association, 14s.; F. G. Holoran, 6s. 9d.; Edinburgh and District Chemists' Trade Association, £10 10s. *Legacy.*—W. G. Atkinson, £10. *Orphan Fund.*—Portsmouth Pharmacists' Association, £2 2s.; C. W. Collins, Devonport (Weighing Machine), £1.

Mr. Simmons said the contributions were a very gratifying list. The Leicestershire ladies had confirmed the opinion already expressed, that when they took matters in hand they succeeded. The report was adopted.

War Auxiliary Benevolent Fund

The Committee of this fund reported that during the month five applications had been considered, and recommended grants of £100 and £52, in addition to grants made of £25 and £6 6s. respectively. The report was adopted.

Establishment Committee

The Establishment Committee reported with reference to the pharmacy laboratory at the School, recalling that the Dean some months ago reported that he would need additional accommodation for practical pharmacy. He had now worked out a plan, and the Committee wished for the Council's sanction to their seeking estimates in connection with the work. The report was adopted.

Organisation Committee

The Organisation Committee's report contained special reference to the Dublin Conference. The Committee had selected speakers for the delegates' meetings as follows:—(1) "Schedules for poisons and potent drugs, the distribution of which should be restricted," to be opened by Mr. A. H. Jenkin. (2) "Pharmaceutical research: its present position and future possibilities." (A speaker has been asked to undertake this, but has not yet replied.) (3) "Is an imperial or international pharmaceutical qualification desirable?" to be introduced by Mr. H. Skinner, president of the Society.

The Committee had considered the most suitable time for holding another conversazione, and recommended that arrangements be made for holding a conversazione in the 1930-31 session.

Finance Committee

The financial statement showed that receipts since the last meeting, including a balance of £10 11s. 5d., amounted to £13,015 3s. 6d., comprising the following items:—Subscriptions, £3,228 15s.; examination fees, £8,104 19s.; registration fees, £149 2s.; restoration fees, £2 2s.; certificates of qualification, £13 13s.; Pharmacological Laboratories, £116 18s. 4d.; penalties, £73 15s.; "Pharmaceutical Journal" advertisements, etc., £1,148 15s. 1d.; Quarterly Journal, £48 12s. 6d.; "Pharmaceutical Pocket Book," £16 14s. 10d.; Pharmaceutical Press publications, £15 4s. 7d.; Registers, £32 9s. 6d.; B.P. Codex, £60 13s. 3d.; School of Pharmacy, £14 19s.; interest on investments, £22 10s. 7d.; wage deductions for F.S.S.U., £38 15s. 8d.; sundries, £6 12s. 9d. Payments ordered at the last meeting amounted to £5,668 5s. 7d., and £7,400 was transferred to deposit account, leaving a balance of £36 17s. 11d. The balances on the other accounts were:—Benevolent Fund (current account), £16 19s. 4d.; Benevolent Fund (donation account), £31 19s. 10d.; War Auxiliary Benevolent Fund, £46 12s.; Orphan Fund, £33 11s. 9d. The report recommended that accounts amounting to £5,279 1s. 2d. be paid, and that the action of the secretary in making payments amounting to £909 3s. 4d. be approved. The report was adopted.

This was all the public business.

"Forensic Pharmacy"

We have received from the Pharmaceutical Society of Great Britain a copy of "Forensic Pharmacy" (8½in. by 5½in., pp. 137, 3s. 6d.), published by the Pharmaceutical Press, and bearing on the title-page the name of Mr. H. Glyn-Jones. In a brief preface, Mr. Glyn-Jones explains the scope of the volume in these terms:—

"It having been found impracticable to issue a mere abstract of such sections of the enactments named in the Regulations as are of importance to pharmacists, the pamphlet has taken the form of a series of short statements of the law. It is hoped that in this form it will be of use not only to students but also to pharmacists in business and others who may no longer be concerned with examinations. . . ."

Mr. Glyn-Jones generously proceeds to take on his own shoulders the responsibility for any errors or omissions. We have formulated, out of a lengthy experience of the compression necessary in compiling text-books, a somewhat different explanation of such errors and omissions as we have noticed in looking through "Forensic Pharmacy." Those sections in which, reading between the lines, we conclude that the author was allowed a free hand, stand out in contrast with those in which he has to all appearances been "cut," not always in the most suitable places. We infer that the matters more or less outside the competence of the Council or its nominees to summarise were left to Mr. Glyn-Jones, while pencil and scissors were vigorously applied in respect of such subjects as appeared simple. The voice is Jacob's, but the hands are those of Esau.

Otherwise it would be difficult to explain the omission of the Merchandise Marks Act, 1926, of certain legal considerations with regard to advertising, of the declarations required in selling fertilisers, and of a discussion of apprenticeship and the relations between employer and assistant (save a brief reference to the sale of poisons by unqualified persons). An important qualification is left out of the sentence (p. 57) which deals with the sale of drugs by apothecaries' weight; such sales must be by retail. A minor detail of the treatment of weights and measures is that there is no reference to limits of error. A few slips, due possibly to the hasty compression to which we have referred, may also be noted. For "the Scottish Board of Health" (p. 42) should be read "the Scottish Department of Health." A distinction between medicine-manufacturers' circulars issued to medical men and similar circulars issued to chemists is overlooked or obliterated on p. 51. "If a preparation contains in the finished product less than the specified percentage, the Dangerous Drugs Acts and Regulations do not in any way affect its sale, though the preparation may still be a Part II poison within the meaning of the Pharmacy Acts" (p. 26) does not cover the case of tinctura chloroformi et morphinæ, B.P., 1885. The supply of cocaine eye-drops for fishing vessels should have found a place under the heading "Possession" of the section devoted to Dangerous Drugs Regulations, instead of an authorisation to possess tinctura chloroformi et morphinæ composita and tinctura opii, which has been revoked. The specification of scheduled poisons which, in certain conditions, are removed from Schedule restrictions (pp. 11, 12) appears to necessitate mention of arsenic and its preparations sold in the conditions of Section 2 of the Poisons and Pharmacy Act, 1908. We are aware that arsenical weed-killers are referred to on p. 14; but their treatment is so brief as to leave something to be desired. The half-page devoted to the retailing of methylated spirit is another example of needlessly severe compression.

Deficiencies such as these, it may be urged, are inseparable from a manual compiled on behalf of an official body, a body which, in the nature of things, is precluded from interpreting doubtful points of law. It seems to us, however, that the only remedy for difficulties that may arise on this ground is to abandon the quasi-official status claimed for a book of this kind, as being unfair to the author and of doubtful value to his sponsors.

Financial Statements

General Fund Accounts

Expenditure (two years compared)

	1927 £ s. d.	1928 £ s. d.
School of Pharmacy and Research Laboratory :—		
Stipend of Professor	900 0 0	900 0 0
Lecturers, Demonstrators, etc. (including £250 for Clerical Assistance)	2,711 14 4	2,789 0 10
Apparatus, Drugs, Chemicals, Specimens, Medals, Certificates, Printing and Sundries	1,781 1 2	1,615 3 7
Proportion of Rates and Taxes	329 14 1	357 3 4
Proportion of Cost : Coal, Lighting, Heating, etc.	149 12 11	161 10 3
[*Totals* :—1927, £5,872 2s. 6d. ; 1928, £5,822 18s.]		
Pharmacological Laboratories ..	1,981 13 9	1,171 15 11
Law Costs	2,481 5 4	2,184 14 8
Registration Department :—		
Major and Minor Examinations :		
Fees to Examiners and Travelling Expenses—		
England and Wales ..	4,347 15 9	5,652 14 0
Scotland	1,275 1 9	1,763 7 2
Refreshments—		
England and Wales ..	342 3 7	398 12 1
Scotland	85 8 3	154 19 5
Apparatus, Drugs, Chemicals, Printing and Sundries—		
England and Wales ..	1,144 10 4	1,217 11 5
Scotland	276 4 4	326 18 2
Certificates of Death	25 14 10	24 9 1
Register of Chemists and Druggists	334 7 6	351 11 4
[*Totals* :—1927, £7,831 6s. 4d. ; 1928, £9,890 2s. 8d.]		
Education :—		
Cost of conducting Prize and Scholarship Examinations ..	132 4 8	166 7 0
Inspection of Schools of Pharmacy	69 9 6	162 2 5
Evening Meetings	37 5 1	59 12 8
[*Totals* :—1927, £238 19s. 3d. ; 1928, £388 2s. 1d.]		
"Pharmaceutical Journal" :—		
Expenditure less Income ..	6,011 11 2	4,382 14 3
Postage	3,239 11 10	3,267 9 2
[*Totals* :—1927, £9,251 3s. ; 1928, £7,650 3s. 5d.]		
British Pharmaceutical Codex ..	400 2 11	806 16 11
Pharmaceutical Press Publications	280 2 11	197 18 9
Pharmaceutical Pocket Book ..	32 2 0	278 8 6
Year-Book	646 15 6	559 9 8
Quarterly Journal	0 0 0	1,371 16 0
Calendar	0 0 0	300 17 9
North British Branch :—		
Resident Secretary and Clerks' Salaries	1,138 0 0	1,191 15 0
Taxes and Insurance	162 2 11	147 5 8
Members of Executive—		
Travelling Expenses, etc. ..	115 13 4	234 14 11
Fuel, Light, Water, Cleaning, Service, etc.	718 19 2	738 7 10
[*Totals* :—1927, £2,134 15s. 5d. ; 1928, £2,312 3s. 5d.]		
Head Office Expenses :—		
Museum—		
Emeritus Curator's Salary	250 0 0	250 0 0
Curator, Assistant, Expenses for Bottles, etc.	274 19 1	305 7 5
Library—		
Salary	308 6 8	338 11 8
Purchase and Binding of Books, etc.	226 18 6	302 4 7
House—		
House Servants' Wages ..	807 8 5	797 12 10
Rent, Rates, Taxes, and Insurance, including Premium on Lease Redemption Policies	1,375 11 3	1,428 13 7
Repairs, Electric Service and Fittings	1,458 12 5	452 6 11
Gas, Electric Light, Water, Coal, and Cleaning Material	640 18 6	646 1 3
Branch Organisation Fund ..	2,800 0 0	2,800 0 0
Head Office Expenses (cont.) :—		
British Pharmaceutical Conference	265 12 1	149 17 3
General—		
Salaries of Secretary and Clerical Staff (less £250 charged to School) ..	3,980 4 7	4,152 4 10
Stationery, Printing, Office Expenses and Carriage ..	1,123 11 6	1,302 1 8
Parliamentary Appeal Fund	508 15 6	0 0 0
Postage	414 4 3	413 12 1
Telephone	53 5 5	50 3 10
Fee to Chartered Accountants	140 15 0	125 0 0
Members of Council Travelling Expenses, etc. ..	1,164 1 10	1,211 11 3
[*Totals* :—1927, £15,793 5s. ; 1928, £14,725 9s. 2d.]		
Transfer to Building Fund ..	5,000 0 0	7,500 0 0
League of Ex-Service Pharmacists	202 7 0	92 1 11
Pensions	700 0 0	745 18 4
Federation of Medical and Allied Societies	10 10 0	10 10 0
Fédération Internationale Pharmaceutique	73 0 10	29 11 4
Anniversary Dinner	0 0 0	59 2 6
Glyn-Jones Fund Expenses ..	0 0 0	118 6 1
Sundries	22 11 0	173 13 0
Balance added to Accumulated Fund	2,210 6 4	2,558 8 3
	£55,162 15 1	£58,948 8 4

Income (two years compared)

	1927 £ s. d.	1928 £ s. d.
School Fees	1,455 19 6	1,694 10 6
Examination Fees :—		
Qualifying Examination ..	24,856 13 0	28,264 19 0
Major Examination	235 4 0	421 3 0
Registration Fees :—		
Apprentices or Students ..	3,704 8 0	2,530 10 0
Chemists and Druggists ..	29 8 0	58 16 0
Restoration Fees	44 2 0	24 3 0
Certificates of Qualification ..	11 15 0	20 13 0
Sale of Register of Chemists and Druggists	112 5 8	167 15 4
[*Totals* :—1927, £28,993 15s. 8d. ; 1928, £31,487 19s. 4d.]		
British Pharmaceutical Codex ..	1,161 1 8	1.805 18 10
Pharmaceutical Press Publications	279 2 3	222 19 7
Pharmaceutical Pocket Book ..	394 3 10	369 1 10
Year-Book	68 4 11	34 5 10
Quarterly Journal	0 0 0	271 5 9
Calendar	0 0 0	34 11 9
Subscriptions :—		
Members	19,388 5 0	20,027 19 3
Student-Associates	1,031 12 6	851 0 6
Life Compositions	104 9 6	210 0 0
Corresponding Members of B.P.C.	62 9 6	61 8 6
[*Totals* :—1927, £20,586 16s. 6d. ; 1928, £21,150 8s. 3d.]		
Interest on Investments :—		
Dividend on 4% Funding Stock	1,179 6 0	1.242 1 8
Dividend on 5% War Stock ..	822 7 6	1,017 5 11
Dividend on Port of London Authority Stock	66 10 0	0 0 0
Dividend on Water Board Stock	45 1 2	45 1 2
Interest on Deposit at Bank ..	218 19 10	208 0 7
	£2,332 4 6	£2,512 9 4
Less Income Tax on War Stock and Deposit Interest ..	171 2 0	208 4 0
	£2,161 2 6	£2,304 5 4
Net Rent of 6 and 7 Paddington Green	440 0 0	440 0 0
Net Rent of 15 Bloomsbury Square	252 0 0	252 0 0
	£2,853 2 6	£2,996 5 4
Less Contributions to Staff Provident Funds and Superannuation	629 11 9	1,118 18 8
	£2,223 10 9	£1,877 6 8
	£55,162 15 1	£58,948 8 4

The balance sheet of the General Fund and the accounts of the Building Fund, Branch Organisation Fund, Benevolent Fund, War Auxiliary Benevolent Fund, Supplementary Benevolent Fund, Orphan Fund, Waterall Legacy, and Scholarships and Prize Funds are also given.

Edinburgh Evening Meeting

(*Concluded from the C. & D., March 30, p. 396.*)

The CHAIRMAN said he had much pleasure now in calling upon Mr. James Grier, of Victoria University, Manchester. Mr. Grier was well known to most of them personally, and to all of them by reputation. He had come to give an account of three years' research in which he had been engaged.

Valerian : Its History, Constituents and Uses

By JAMES GRIER, M.Sc., PH.C.

[ABSTRACT.]

IN the paper on "The Relation of Chemical Structure to Physiological Action," communicated to you in 1913 (and in which it was endeavoured to show that a general narcotic action characterised the aliphatic series of organic compounds), valerian was instanced as a drug the action of which as a nervous sedative depended on the presence in the volatile oil of esters of an alicyclic alcohol with aliphatic acids, viz., borneol isovalerianate, chiefly, and to a lesser extent acetate and formate. A number of drugs which have been used in medicine quite empirically and independently for their sedative action, when examined, are found to contain this valerianic combination in the form of volatile oil and to possess or to develop the characteristic odour. Such are serpentary, viburnum, sumbul, elder flowers and berries, guelder rose, hops, and so forth. These and the volatile oil of asafetida have long been used in the treatment of hysteria and the nervous troubles of women; more recently valerian has been used for shell shock in men (with the effect in 1918 of trebling the price of the drug), and also for the simple nervous restlessness of children affecting sleep, appetite and digestion. According to Pouchet and Chevalier, 1904-05, the fresh juice of valerian root prepared out of contact with air has a very powerful sedative action on the nervous system and at the same time acts as a cardiac tonic, so that it is at one and the same time stimulant and sedative. For young children it is the safest and best hypnotic. In France, a tisane or infusion is a common domestic remedy, whereas formerly, in this country, elder-flower wine was used. The London Insurance Pharmacopœia has an emulsion of asafetida with infusion of valerian instead of the customary combination of spt. amm. fetidus with tinct. valerian. ammon. In America a pill containing ext. valerian., ext. sumbul and asafetida, of each 1 gr., is used for nervousness in women and as a general sedative. Viburnum finds a use as a uterine sedative, and the B.P. liquid extract has the valerianic odour of the volatile oil present. On the assumption that the active sedative constituent consists of the borneol esters, preparations of this nature have been made synthetically and put on the market, but they do not appear to be satisfactory substitutes for the natural drug.

It is worth noting that whereas medical text-books of materia medica usually group all the volatile oils together and credit them with a similar action, these nevertheless fall into two distinct groups:—(*a*) Those whose active constituents belong to the aliphatic and alicyclic series of organic compounds are sedative, (*b*) those whose active constituents belong to the aromatic series are essentially antiseptic. To the latter belong those aromatic drugs which are used as spices and condiments and the balsams which are antiseptic and vulnerary, also thymol, a most efficient antiseptic and parasiticide. To the former group belong all the natural fruit essences, such as pear, apple, raspberry, orange, which produce a cooling and soothing effect; true apple oil is iso-amyl valerianate. To the same group belong the alicyclic substances, menthol, camphor, borneol and perhaps the muskone of natural musk as well as the sulphur oil of asafetida, all of which are used as antispasmodics. The "Quarterly Journal of Pharmacy," I, 3, 472, reports an interesting investigation on the local action of chamomile, peppermint and fennel. The inflammation was removed or reduced by the local application of an infusion of chamomile; infusion of peppermint had a similar but less intense action, while infusion of fennel increased the inflammation. This is just what one would expect from theoretical considerations, seeing that the oil of chamomile contains esters of fatty alcohols with fatty acids. Chamomile tea is an old-fashioned but very efficacious remedy for hysterical and nervous affections in women, and rue, which is similarly used, contains as the active constituent of its volatile oil an aliphatic principle, methyl-nonyl-ketone. It is to this group that valerian and the other sedative drugs enumerated belong. There is here, therefore, a distinct relationship between chemical structure and physiological action.

Up to quite recent times it was held and taught by our medical friends that the action of valerian, as also that of asafetida, was purely psychological, associated with the repulsive odour and taste and with the preconceived ideas held as to their action in mediæval times. The valerian-asafetida combination must have had an excellent remedial effect both on the mind and body, for psycho-therapeutists now agree that the effect on the mind and body must not be separated but considered together. At the present time, and presumably arising out of the conditions of modern life, many ailments are due not to tissue changes, at any rate changes capable of physical detection, but to what are called "neuroses." Ordinary remedial agents, such as nerve tonics, have little or no effect as compared with moral management or psycho-therapeutic treatment; but in the valerian group of drugs we seem to have remedial agents capable of producing definite physical effects. In this connection a paper which appeared in "The British Medical Journal" last November on "The Therapeutic Value of Valerian," by Dr. Manson (*C. & D.*, 1928, II, 789), is of special interest. Equally satisfactory results are reported in German post-war medical literature on the use of valerian as a sedative and soporific, special note being made of its mild tonic action on the heart and the fact that its administration is never followed by harmful secondary effects.

METHODS OF PREPARATION

It is worth noting that the preparation used on the Continent was prepared by a process of dialysis from the fresh root so as to present the natural principles in their original undecomposed state, and that the French pharmacologists used the fresh juice prepared out of contact with air. Van der Wielen advocates making valerian preparations from the stabilised drug to avoid alteration by enzyme action during the process of drying. This seems to support Tschirch's dictum "that in most cases not one or the other active principle is exclusively the therapeutic agent, but that the physiological effect is a resultant of the complex of active principles," and there seem to be indications of a return to the use of drugs rather than to synthetic products or isolated plant principles. It seems probable that valerian as a remedy has suffered through unsatisfactory forms of administration; and if the effects of heat and oxidation in drying and evaporation can be avoided and the enzymes killed by stabilisation, we should get a greatly improved preparation. It is certain that any preparation of valerian with a strong odour of isovalerianic acid should be regarded as therapeutically inactive. The acid itself is devoid of therapeutic action and its salts, even the ammonium valerianate, having no action apart from the stimulant action of the ammonium. The pills of triple valerianates, quinine, iron and zinc, owe their action to these three bases, especially to the zinc. J. C. Umney has shown that the B.P. tincture prepared from fresh European root makes an almost bright dilution with water, while a comparatively old root, where certain chemical changes have taken place in the constituents of the oil, produces a somewhat turbid mixture, obviously due to resinification. A tincture prepared from Japanese root gave a very turbid mixture. The Japanese valerian "Kesso" (*V. latifolia*) is a dark brown root with scurfy surface and a powerful, unpleasant odour, which gives a quite different taste to the tincture. On the other hand, the valerian oil of commerce and official in the Ph.G. is from Japanese "Kesso" roots, which according to Parry yield 8 per cent. of volatile oil. The high price and the low yield of oil from European roots (1 per cent. or so) make it quite impossible to obtain an oil which can compete with the Japanese product. A liquid extract 1 in 1, said to be of Japanese valerian, was found on examination to contain only 0.266 per cent. oleo-resin, the strength of an ordinary 1 in 5 tincture of European root. The pharmacy of valerian is discussed in a paper

("P.J.," November 19, 1921) by Dr. Smodlaka, who tested his preparations on frogs and obtained true anti-spasmodic or brain-depressing effects. The tinctures used in his experiments were prepared by the Ph.G. official method from fresh root stabilised *in vacuo* at 100° C. for ten minutes, and also from root dried naturally in the sun. Thus made, they kept better than the official tinctures, were of a deeper colour, brighter appearance, pleasanter taste with smell stronger and more aromatic, and they also yielded more extractive or residue on evaporation. The drug used was an Alpine dwarf or xerophilous variety growing at a height of 1,700 metres (one mile), which is the limit of height at which valerian grows. Dr. K. Bullock, in his paper to the 1924 British Pharmaceutical Conference, suggested the following process as giving the best results, since the oil and other constituents of the fresh drug would be present in an almost unaltered condition. The fresh root was ground with sand and a calculated quantity of alcohol added so that the result would be equivalent to macerating the dried root in 70-per-cent. alcohol, e.g., 224 grams. of root required 420 c.c. absolute alcohol. The whole was macerated with frequent shaking in the cold for fifteen days, the solution filtered, and the marc pressed. The tincture so obtained contained 0.227 per cent. of oleo-resin, i.e., the alcohol had extracted from the root 2.9 per cent. of oleo-resin calculated on the dry root which by the method of assay gave 3.24 per cent., a loss of only 0.34 per cent., so that the extraction was satisfactory. Such a tincture made from fresh English-grown wild root (var. *sambucifolia*) was double the strength of that made from dried imported root (1.35 per cent. oleo-resin); and a tincture from fresh English-grown cultivated root (probably var. *Mikanii*) larger, more robust and more odorous than the sambucifolia variety was still stronger, viz., 4.28 per cent. of oleo-resin calculated into dried root. Ammonia was not used, but an examination of the B.P. tincture showed that a fifth of the oleo-resin is in combination with ammonia. Tschirch says the addition of ammonia is superfluous.

Method of Assay

The method of assay consisted in well mixing 50 grams of the drug in No. 40 powder in a mortar with 50 grams of water and 80 grams of dry sand and extracting in Soxhlet thimbles for four hours with petroleum spirit (B.P. below 40° C.). The dried solvent was recovered, the residue treated with 70-per-cent. alcohol which separates the oleo-resin from the green fatty matter, although the separation is not absolute, the solution diluted, the oleo-resin shaken out with chloroform, the latter dried, evaporated and the residual oleo-resin weighed. This general method of assay was applied to other aromatic drugs, e.g., commercial powdered cinnamon and ginger yielding 1.23 per cent. and 1.5 per cent. respectively. An essential point is the moistening of the powder with water and also the amount of water to be used. In the case of ginger 30 per cent. of water gave the maximum yield of oleo-resin, whereas 15 per cent. of water gave the maximum yield of fat, which was 0.3 per cent. Without previous moistening complete extraction was not possible, whether by ether, petroleum spirit or absolute alcohol. The reason would seem to be that the volatile oil arises in the plasma of the living cell, and when secreted it is surrounded by a plasmatic skin or membrane impermeable to dry organic solvents but permeable to water. This matter is discussed in Schimmel's 1927 Report on Essential Oils. In replying to the discussion on Dr. Bullock's paper (1924), it was definitely stated that the oil of valerian was secreted in the primordial utricle and never left it, and that if a section were made of recent English-grown valerian, only those cells which were cut by the razor yielded up their oil to alcohol; those which were just beneath the surface and had not been cut remained intact. The enclosing membranes could be seen under the microscope when the oil had been dissolved out and absorbed. Some of these membranes must persist even in the dried and powdered drug, as dry solvents extract only half the quantity of volatile oil present and less than that in the case of ginger, using the Soxhlet apparatus. It was found that the older the drug the greater the ratio of resin to volatile oil. The iso-valerianic acid of the volatile oil probably originates from the amino acid, leucine $\begin{matrix}CH_3\\CH_3\end{matrix}$ $CH.CH_2.C.\overset{H}{\underset{NH_2}{}}COOH$, which by oxidation yields— $CO.COOH$, and finally $\begin{matrix}CH_3\\CH_3\end{matrix}$ $CH.CH_2.COOH$.

The Valerianaceæ, like most aromatic plants, favour dry arid soil. They inhabit temperate countries, especially the North of India (Himalayas), Europe (Alps), S. America (Andes) and dwarf xerophilous varieties occur in all these places. They are also found in Mexico and Japan, but not apparently in Australia and New Zealand. The official Indian Valerian (*V. Wallichii*) is a native of the hills of Cashmere and Nepal (N.W.), whereas on the hills of Bhutan (N.E. Himalayas) is found *V. Jatamansi*, the spikenard of Scripture and the nardus of the Greeks and Romans. In ancient times it was conveyed by way of Arabia to Mediterranean countries. Its fragrance, pleasant even while it is green, is much strengthened on drying. It is much esteemed in India both as a perfume and as a remedial agent in epilepsy and hysteria. Valerian was known to Dioscorides under the name "phu," and phu Germanicum was the name used by Fuchs (1542). In the Middle Ages it was used as a perfume and spice, and its mediæval name "poor man's treacle" (*C. & D.*, November 26, 1927) implied something very precious. The name "valerian" was used by Haller (late seventeenth century) and earlier by English botanists. It is said to be derived from valeo, to be well, compare its name of all-heal, or from Valerius, a Roman physician. Its German name is Baldrian or Baldur. Linnaeus named it *V. Phu*, and in Greece and Asia Minor *V. Discoridis*. In Russia *V. Sitchensis* is most esteemed as a nervous sedative, tonic and antispasmodic. English valerian, *V. officinalis*, occurs in two varieties var. *Mikani* (Syme) and var. *sambucifolia* (Mikan); the latter has broader leaves, oblong-lanceolate; the former is more robust, yielding a larger and more odorous root, and is that cultivated at Long Melford (Squire). The B.P. root is dull brown, yields 8-10 per cent. of ash rich in manganese. The French-Belgian root is paler, straw-coloured, and is the present commercial source. It is cultivated in the Department du Nord and in Belgium. The wild plant grows on the Ardennes and Vosges mountains on dry soil, and is said to be much more active. Squire suggests that foreign roots should either be allowed or prohibited in the B.P. A fine variety used to be grown in Derbyshire, near Chesterfield, and was in great demand in America, but the industry no longer exists. It formed the subject of a paper in the 1904 "Year-Book of Pharmacy," by F. A. Upsher Smith. Valerian seems to be grown at Wisbech and Dunstable among other places. Perhaps the finest specimen we examined came from Scotland (1922), where it had been cultivated. It had a most pleasant aroma. The rhizome is generally directed to be collected in the autumn. The Italian Pharmacopœia (1921) directs it to be collected from plants two to three years old in the spring; but Dr. John Hill, in a pamphlet published in 1758, says that both autumn and spring are equally wrong, and gives as the proper time the end of May and beginning of June before the stalk rises. Both Dr. Hill and Withering (1785) insisted that the variety growing on dry heaths and pastures is the variety which has repute in medicine; and the latter quotes the opinion of Dr. Rutherford, of Edinburgh, who preferred the dry powdered root gathered on dry, hilly ground and given in doses of ½ to 1 dr. ("P.J.," November 30, 1921). Dr. Hill says the water valerian, which is not to be used, is 4 ft. high with large, smooth, pale green leaves and pale flowers. The heath valerian is 2½ ft. high with smaller, deeper green hairy leaves and with brighter red flowers. It is a sovereign remedy, he says, for all nervous disorders. The true kind grew in plenty on the great heath called Hind-Head on the Portsmouth Road, and Ray, the botanist, he says found it near Ashworth, by the Buxton Well in Derbyshire, at Parnham in Suffolk, and on Ilford Common. The principal places were four; near Cambridge, Oxford, and the near part of Kent, but especially the forest of Dean, from which came

the purest and best. At that time (1758) the valerian root sold by druggists was collected by a kind of itinerant medicine mongers, whose real occupation was the catching of vipers and who also collected saffron and some other articles.

(The paper was also illustrated by a series of the chemical substances separated during the research and also by samples of Indian valerian, spikenard, Belgian valerian and Scottish valerian, and herbarium specimens and illustrations of the various varieties of valerian.)

DISCUSSION

The CHAIRMAN said they would agree that this was one of the most interesting and important contributions to their evening meetings for quite a long time. They had been informed that the action of valerian was chiefly mental, but there must have been something more than that, otherwise it could hardly have had such a widespread use. His experience recently had been that there was a larger demand for tincture of valerian.

Mr. BLACKIE said his chief interest in valerian had been in growing the plant and collecting the root for the manufacture of galenical preparations. He was glad to notice that the Scottish valerian root had been found to be the best obtainable. His own experience in the use of Scottish and Continental valerian root quite corroborated what was said by Mr. Grier. The plant might be propagated either by seed or by vegetative cuttings. Seeds sown now yielded plants in August or September which could be planted out and reached maturity in the second year. The late Sir Thomas Fraser suggested that the action was due to borneol. One wondered how this could be so, considering the dose of the tincture, ½ drachm, which would contain only an extremely small quantity of borneol.

Mr. TODD said he was interested because some time ago he conducted a research on valerian from a somewhat different point of view. He was examining for the presence of oxidases and other ferments. He obtained some very curious results with regard to the valerian odour. Good Scottish valerian root, when dried carefully and stored under good conditions, had practically no valerian odour. From this he inferred that the valerian odour was really due to oxidation.

Mr. DOTT said there was an interesting example of this development of a valerian odour. The hops used in beer brewing possessed only a slight odour of valerian, but when cast out into the yard after the manufacturing process was completed the moist hops very quickly developed a strong valerian odour.

Mr. HILL said he noted that Mr. Grier mentioned that a valerian root possessing a powerful valerian odour was therapeutically inactive. If that were so, it rather contradicted the alleged psychological effect of the drug which was said to depend on the odour. They had also the evidence that the constituents of the drug possessed a direct physiological action on the brain and nervous system of the animals experimented on. All this tended to show that the therapeutic action was due to a direct physiological effect of the active substances in the drug.

Mr. GRIER, replying, said he thought the valerian odour in the moist hops resulted from the splitting up of protein matter in the hops in the way indicated in the paper, as the odour was not found in the volatile oil of hops. Odour and taste were the elements that gave rise to the psychological effects. They had an analogy in the case of perfumes. In the case of lavender, for example, they had English lavender and exotic lavender, the first being greatly preferred.

On the motion of the CHAIRMAN, a cordial vote of thanks was awarded to the authors of the papers.

Branch Meetings

Falkirk.—A meeting of the Edinburgh and South-East of Scotland Branch was held at Falkirk on March 27, Mr. David Harley in the chair. The chairman referred to the sudden death of Mr. James Ferrier, Falkirk, who took a keen interest in the affairs of the Branch. The chairman called upon Dr. Tait to give an address on *The Chemist and the Public Health: His Special Training and Examination.* Dr. Tait referred briefly to the history of the craft and to the function of the doctor and the chemist. The ideal practice was that the doctor should prescribe and the chemist dispense. He noticed that many candidates were unfamiliar with the use of a modern type of balance. A candidate had asked for a second set of weights to carry out his examination tests. He considered that the pharmaceutical examinations were the fairest he had ever known, and that candidates, if they had a reasonable knowledge of their work, should have no fear of failure. He thought the practice of having a "shot" at every examination was a mistake. The question of working up to the last minute depended a great deal on the type of student. A rapid revision of work was advisable. Cramming for a written examination, though dangerous, might be useful to some. Cramming for an oral one was no use. It was remarked by examiners that candidates sometimes talked rubbish for the first few minutes, and this might be the result of overworking. An important thing was to come up to an examination as physically fit as possible. A discussion followed, taken part in by Messrs. Marshall (Grangemouth), Skinner (Stirling), Currie (Leith), Drummond (Falkirk), Wilson (Burntisland), and others, and questions were dealt with and answered. On the motion of Mr. Marshall (Grangemouth), a vote of thanks was awarded to Dr. Tait and to the chairman.

Glasgow.—Recently, a joint meeting of the Glasgow and South-Western Scottish Branch of the Pharmaceutical Society and the Glasgow Pharmacy Club was held at 165 Hill Street, when an address on *The Doctor and Chemist in Relation to the Health of the People* was delivered by Dr. J. Tait, assistant resident secretary in Scotland. Mr. Harvey P. Arthur, chairman of the Branch, presided. Dr. Tait gave a sketch of the evolution of the professions of medicine and pharmacy, and showed the intimate connection that existed between them. He dealt with the relationship between the chemist and the doctor, of the spirit that should exist between chemists in their professional relations, advocating a greater *esprit de corps.* In closing, he touched on the relationship of the chemist to the public, and convincingly proved the necessity for chemists to do nothing that would lessen the confidence of the public in the prescriber, and that the same obligation rested on the doctor to maintain public confidence in the dispenser. A discussion followed, taken part in by Messrs. McVitae, Guthrie, Robb, Abbott, Duff and Culbert. On the call of the chairman a vote of thanks was accorded Dr. Tait.

Associations' Winter Session

Birmingham.—At a meeting of the Birmingham Pharmaceutical Association, held at the Imperial Hotel, on March 20, a lantern lecture entitled *William Allen, the First President of the Pharmaceutical Society: his Life and Times* was given by Mr. E. C. Cripps, the author of "Plough Court: the Story of a Notable Pharmacy." The lecturer's subject proved very interesting, and in the time available he dealt with it thoroughly. Mr. E. W. Mann proposed a vote of thanks.

London (S.-W.).—A meeting of this Association was held on March 13 in Stevens' Bijou Hall, S.W.4. The chair was taken by the president (Mr. D. A. Rees), and the hall was packed to its full capacity. Mr. Herbert A. Mills, Ph.C., delivered a lecture on *Colour Photography,* illustrated by a series of slides in colour depicting "The Glory that is England." The slides were all taken by Mr. Mills by the Lumière process, which he described scientifically in detail. A vote of thanks was proposed by Mr. E. K. Monks.

Public Pharmacists.—The concluding meeting of the session was held on March 20 at 17 Bloomsbury Square (by permission of the Pharmaceutical Society), when Professor H. G Greenish gave a lecture on *Medical and Pharmaceutical Insignia.* The president (Mr. F. E. Bullen) occupied the chair. Professor Greenish outlined the history and symbolism of the Society's coat of arms, explaining the meaning and importance of its various heraldic features. He then dealt with the armorial bearings of some of the learned Societies and of the London hospitals, illustrating his remarks by means of lantern slides. On the motion of the president, a hearty vote of thanks was accorded to the speaker.

Insurance Act Dispensing

Record of matters concerning Chemists' interests in the National Health Insurance Acts

Local Reports

ENGLAND AND WALES

Lancashire.—The latest annual report of the Prescription Pricing Department, covering the year 1928, gives, *inter alia*, the following figures :—

Year	Ingredients	Dispensing	No. of Prescriptions	Average Ingredient Cost	Average Dispensing Cost
	£ s. d.	£ s. d.		d.	d.
1916	23,583 9 7	18,534 16 5	1,528,683	3.70	2.91
1920	33,367 13 1	31,154 16 6	1,379,056	5.80	5.43
1923	34,565 19 3	38,538 2 8	2,028,460	4.09	4.56
1926	53,573 9 6	53,759 13 8	2,886,774	4.45	4.49
1927	59,030 18 9	60,152 8 11	3,214,662	4.41	4.49
1928	56,529 14 5	57,618 12 7	3,116,360	4.35	4.44

During 1928 it was necessary to return 4,087 prescriptions to chemists for the following reasons :—(1) Signature of doctor missing or illegible, 7; (2) Quantity or quality not stated, 219; (3) Formulas required, 1,608; (4) Writing illegible, 12; (5) Repeats not allowed, 17; (6) Prescriber not on County Panel, 3; (7) Prescription ambiguous, 52; (8) Maker's name and cost, 529; (9) Appliance ordered not on official list, 51; (10) Duplicate copy, 5; (11) Proper to another area, 509; (12) "Urgent." State on script, time dispensed, and initial, 293; (13) Patient's address not stated, 110; (14) Carbon copies not accepted, 201; (15) Unofficial forms not accepted, 21; (16) Miscellaneous queries, 450. Comparative figures for 1924, 1925, 1926 and 1927 are 5,810, 7,026, 5,233 and 6,812 respectively. The following were disallowed during 1928, on the ground that the cost was not a proper charge on the drug fund :—Atomizer; Burney Yeo's inhaler (5); Benedict's solution; bromine capsules for testing; camel hair brushes (40); capsicum wool (14); cotton knee cap; double trusses (3); ear syringe (2); elastic anklet; elastic back support; elastic knee caps (7); elastic stocking; enema syringe; Energen bread; eye shades (33); eye shields (11); Fehling's solution (21); finger stalls (5); glass syringes (8); glass straw; hypodermic syringe for adrenalin; leather finger stall; litmus paper; meat enules; Midgley's Medisoap; nasal douche (9); nasal spray (2); pads for flat feet; pneumonia jackets (2); respirator; rubber syringe; rubber finger stall; saccharin tablets (3); Sanatogen; throat brushes (51); urethral syringes (5); vaccination pads (8); Virol (3); Vitafer (3); total, 260. The total cost of insulin, vaccines and serums amounted to £2,169 10s. 2d., compared with £1,617 13s. 1d. in 1927.

London.—A meeting of the Pharmaceutical Committee took place on March 19, Mr. P. Sparks in the chair. The secretary reported, among other things :—Information regarding the South Metropolitan Gas Co.'s scheme to the effect that Insurance scripts had been issued in error to some of the Company's employees, and that appropriate steps had been taken to prevent such script being charged to the drug fund. Comparative figures for the year 1927-28 are as follows :—

	1927	1928
Total number of prescriptions	8,743,249	8,437,809
Cost of ingredients	£135,565 16 2	£127,775 11 6
Cost of dispensing fees	£162,039 7 1	£155,826 13 8
Average cost of ingredients	3.72d.	3.64d.
Average cost of dispensing fees	4.45d.	4.43d.
Mean number of persons on list	1,778,563	1,810,025
Average number of prescriptions per person	4.92	4.66
Average cost per person	40.16d.	37.60d.

Particulars relating to the supply of insulin, vaccines, hypodermic syringes and needles during the year 1928 are as follows :—

	No. of prescriptions.	Total cost	No. of patients
		£ s. d.	
Insulin	13,687	5,024 14 1	4,735
Serums and vaccines	2,906	558 5 9	2,437
Hypodermic syringes	238	36 18 6	232
Hypodermic needles	1,342	54 2 11	1,081

Stock Exchange Prices

£1 Shares unless otherwise stated	Dec. 31, 1928	Feb. 28, 1929	Mar. 28, 1929
	s. d.	s. d.	s. d.
Allen & Hanburys, 7% Prefd. Ord.	21 6	21 3	21 0
Amalg. Dental Co., 8% Prefd. Ord.	21 0	21 0	21 0
„ „ Deferred 5s.	5 9	5 10½	5 9
Apollinaris and Johannis, Ord. £1	13 9	12 3	11 6
Ayrton, Saunders & Co., 7½% Pref.	15 0	15 0	15 0
Beechams Pills, Deferred 1s. shares	5 4½	5 0	4 9
Benger's Food, Ord.	38 0	37 0	37 0
Boake (A.), Roberts & Co., 5% Pref. £10	£7	£7	£7½
Boots Pure Drug, Ord.	138 9	145 0	145 0
Boots Pure Drug, 7% "A" Prefd. Ord.	23 7½	23 7½	23 7½
Boots Cash Chemists (Southern), 6% "A" Pref.	21 7½	21 7½	21 7½
Borax Consold., Defd. Ord.	20 3	19 3	18 0
Bovril, 6% Pref.	22 9	22 9	22 0
„ Ord.	24 9	25 9	24 9
„ Defd.	40 0	40 6	37 6
British Cyanides, Ord., 2s. shares	5 7½	4 10½	4 6
British Drug Houses, The, Ord.	23 0	24 0	26 9
British Glues and Chemicals, Ord.	4 9	5 0	5 0
„ „ „ 8% Pref.	18 9	18 0	18 0
British Oil and Cake Mills, Ord.	32 0	33 0	31 3
British Oxygen, Ord.	32 6	36 0	33 9
British Photo. Indus., 6% Cum. Pref.	15 9	15 3	14 0
Bush (W. J.) & Co., 5% Pref. £5	67 6	65 0	66 3
Cadbury Bros., 6% Pref.	23 0	23 3	23 6
Callard, Stewart & Watt, Ord.	38 9	38 9	36 3
Crosfield (Joseph) & Sons, 6½% Pref.	21 3	20 9	20 9
Dubarry Perfumery, Ord. 1s.	9 6	8 9	8 9
„ „ 7½% Pref.	20 6	20 6	20 6
Eastman Kodak Com. (no nom. value)	$187	$189	$181
Evans Sons Lescher & Webb, Ord. 6s. 8d. shares	3 9	3 9	4 0
„ „ 6% cum. part. Pref.	4 9	4 6	5 3
Field (J. C. & J.), Ord.	12 6	15 0	15 0
Gossage (William), 6½% Pref.	21 0	21 3	21 0
Grout & Co., Ord.	30 0	33 9	30 0
Heppells, 7% cum. partic. Pref.	16 0	16 0	16 0
Hodders, Ord. 1s.	1 3	1 5	1 4½
Idris & Co., "A" Ord.	21 0	21 3	20 0
Ilford, Ltd., Ord.	47 6	50 0	48 6
„ 6% Pref.	19 6	20 0	21 6
Imperial Chemical, 7% Pref.	26 6	25 6	25 9
„ „ Ord.	39 0	41 9	40 0
„ „ Defd. 1/-	14 3	14 9	14 0
Intern. Sponge Importers, 6% Pref.	10 0	8 9	6 3
Kent (G. B.) & Sons, 5½% Pref.	11 3	11 0	11 3
Knight (John), 25% Preid. Ord.	71 3	71 3	70 6
Laporte (B.) & Co., Ltd., Ord.	11 6	12 6	12 6
Lever Bros., Ltd., 7% Pref.	22 9	23 0	22 6
„ „ 8% Pref.	23 0	23 3	23 0
„ „ 20% Prefd. Ord. 5s.	12 6	12 6	12 6
Liebig's Ext. of Meat, Ord. £5	£17	£17½	£16⅞
Mellin's Food, 6% Pref.	12 6	11 9	11 3
Mond Nickel Co., Ord. 10s. shares	180 0	—	—
„ „ 7% Cum. Pref.	27 9	—	—
Nathan (Joseph) & Co., 7% Pref.	17 0	17 9	17 6
„ „ „ 8% Prefd. Ord.	8 0	8 6	8 6
National Drug and Chemical Co. of Canada, 6½% Pref.	6 3	6 3	6 3
New Transvaal Chemical Co., 6% Pref.	20 0	20 0	20 0
„ „ „ 8% Pref.	23 9	23 0	23 0
Salt Union, Ord.	47 6	41 3	41 3
„ Pref.	35 0	36 6	35 0
"Sanitas," The, Co., 9% Pref.	26 6	29 6	26 6
Sanitas Trust, 10% partic. Pref.	24 0	23 6	24 6
Schweppes, Ltd., Ord.	32 0	32 6	32 0
„ „ Defd.	35 9	38 0	35 6
Smith (Stephen) & Co., Ord. 5s.	7 9	8 3	7 6
Solidol Chem. Co., Ord. 1s.	2 6	1 1½	0 10½
Southall Bros. & Barclay, Ord.	96 0	107 6	107 6
„ „ „ 5% Pref.	19 6	19 3	19 3
Spratt's Patent, Ord.	57 6	60 9	57 6
Stevenson & Howell, 6½% Cum Pref.	20 0	20 0	20 1½
Taylors Cash Chemists (Lon.) 1s. Defd.	—	2 7½	2 9
Taylors (Cash Chemists) Trust, 7½% Cum. Pref. Ord.	20 9	20 9	21 0
„ „ „ 1s. Defd.	6 3	6 0	5 6
United Glass Bottle Man., 6% Mt. Deb. Stk., £100	£96	£97	£97
Venesta, Ltd., Ord.	11 9	12 6	12 6
„ 7% Pref.	16 3	17 6	16 6
Veno Drug Co., 8% Pref.	19 0	19 0	19 0
Virol, Ltd., Ord.	95 0	95 0	90 0
„ 7% Pref...	22 6	22 6	22 6
White (A. J.), Ltd., Ord. 10s.	11 3	12 6	11 10½
White (Timothy), 7½% Preid. Ord.	21 0	20 9	21 3
„ „ 1s. Defd. Ord.	3 6	3 3	3 0
Wright, Layman & Umney, 6% Pref.	20 0	20 0	20 0

Trade Report

The prices given in this section are those obtained by importers or manufacturers for bulk quantities or original packages. To these prices various charges have to be added, whereby values are in many instances greatly augmented before wholesale dealers receive the goods into stock, after which much expense may be incurred in garbling, packing, etc. Qualities of chemicals, drugs, essential and fixed oils, and many other commodities vary greatly, and higher prices than those here quoted are charged for selected qualities of natural products even in bulk quantities.

42 Cannon Street, E.C.4, April 4

BUSINESS in the produce markets has been curtailed in all directions under the holiday influence, and there are few changes to report. In the pharmaceutical chemical group the recent advances in a number of products are maintained, with the exception of foreign aspirin, the price of which has been reduced to the same level as home makers. A further sharp advance has occurred in methyl sulphonal. Phenazone and amidopyrin are both firm, and may probably advance further. Business in drugs has barely opened since the holidays. Cod-liver oil and senega remain firm. Canary seed also keeps firm and still advancing. Dutch caraway is dearer and coriander seed is much cheaper. Opium is firm, with higher prices asked. The essential oil market is quiet and the general abstinence from heavy buying has caused prices to be shaded a little. Even the citrus oils which are actually in a very strong position, are being cut by some holders. Japanese dementholised peppermint, gingergrass (c.i.f.) and nutmeg oils are easier, while rose wood is still lower and is extremely weak. In the industrial group of chemicals, business has been practically suspended during the holidays. Formaldehyde is unsettled, and sodium acetate is inclined to weaken. Cream of tartar is firm; lead acetate is steady. Among the fixed oils business has been quiet, and with the exception of lower prices for American turpentine and palm oils there are no important changes.

Higher	Firmer	Easier	Lower
Canary seed	Cadmium	Formaldehyde	Coriander seed
Caraway seed	Fenugreek seed	Gingergrass oil (c.i.f.)	Palm oils
Emetine salts	Rubber	Milk sugar (Dutch)	Pepper
Methyl sulphonal		Nutmeg oil	Resin (Amer.)
Opium		Peppermint oil (Jp.)	Rosewood oil
Pulv. seidlitz (B.P.)		Sodium acetate	Turpentine
Soda pot. tart. (B.P.)			

Crude Drugs, etc.

ANTIMONY continued firm, sellers of Chinese regulus on the spot asking £38 to £38 10s., with a little more inquiry. Terms for shipment are around £35 10s. English refined varied from about £53 10s. to £55, according to brand. Chinese crude on the spot ranges from about £33 upward.

BALSAMS.—Tolu is quoted at 4s. per lb. c.i.f. and at 4s. 3d. on the spot. Balsam Canada is offered at from 5s. 3d. to 5s. 6d. as to quantity.

CADMIUM.—Trade inquiries seem well maintained and the quantities coming in appear to be easily absorbed, with quotations on the spot ranging from 4s. to 4s. 2d., according to quantity. A few small parcels have come to hand lately from the Continent.

CLOVES.—Zanzibar are easier, with spot sales at 1s. 5½d. to 1s. 5¾d. per lb. To arrive, March-May is 1s. 6d.; May-July 1s. 3½d., and August-October 1s. 0¼d. c.i.f. Madagascar is 1s. 5½d. per lb. on the spot, with small sales thereat. The landings of Zanzibar in London during the week ending March 30 were *nil* and the deliveries 75, leaving a stock of 1,495, against 12,588 in 1928 and 10,065 in 1927. The landings of Madagascar during the week ending March 30 were *nil* and the deliveries 13, leaving a stock of 1,621 bales.

COCOA BUTTER.—Prime English is quoted at from 1s. 3½d. to 1s. 4d. per lb., and C.F.R. at 1s. 4d., in not less than one-ton lots.

COD-LIVER OIL continues firm and the Lofoten fishing has now practically closed, as is usual at Easter. Fishing has now been transferred to Finmarken, where the prospects on account of stormy weather are not so favourable. The latter part of the Lofoten fishing has not been nearly so productive as expected, hence the general all-round firmness. Agents' quotations vary somewhat at from 105s. to 112s. 6d. per barrel c.i.f. for finest new Lofoten non-freezing steam-refined.

BERGEN, March 25.—Both weeks of the last fortnight contributed a considerable increase in the production of medicinal cod-liver oil. The figures covering the catch and production of cod-liver oil are as follows:—

	Catch of cod (millions).	Production of medicinal cod-liver oil in hectol.
1929	42.1	56,047
1928	28,5	24,580
1927	35,0	41,819
1926	20,9	33,718

	Vessels participating in fishing.	Oil potency of livers.	Number of cod to give 1 hl. liver.
1929	8,359	37 to 52	356 to 410
1928	7,599	30 to 45	418 to 520
1927	6,680	38 to 50	300 to 510
1926	6,335	—	220 to 500

Even in face of the heavy production figures the market firmed up during last week, and export quotations were slightly increased. The main reason for this upward movement was the commencement of buying operations on the part of speculators. During the last few years medicinal cod-liver oil has been subject to speculation by outsiders, who are always watching the development of the market. The question now is, if speculators—with the to-day's official publication of the above heavy production figures—will withdraw from or continue their buying operations. The development of this week's market will chiefly be dependent thereon. Bookings during the last fortnight continued even better than during the preceding one, and the increase in prices slightly animated buying operations. The export figures (hectolitres) of medicinal cod-liver oil in comparison with 1925-1928 are as follows:—

March 9, 1929	9.3	16,951	March 13, 1926	13.3	9,506
„ 10, 1928	10.3	8,824	„ 14, 1925	14.3	13,660
„ 12, 1927	12.3	16,143			

BERGEN, March 27.—During the last few days the catch in Lofoten was declining and the market had a firmer tendency. In the fishing districts exporters are buying up all the lots available. The demand for cod-liver oil from abroad is increasing, both for immediate shipment and for delivery over the year. Exporters are, however, only disposed to sell for early shipment, as a further drop in prices is improbable.

CORN PRODUCTS, ETC.—Guaranteed water-white American *glucose* (corn syrup) is 22s. 6d. per cwt. for March-April delivery, ex store (London). Dutch *maize starch powder* (cornflour) is 16s. 3d. per cwt. on the spot; American is 16s. 9d. per cwt., ex store, London, for March-June delivery. Pearl starch is 16s. 3d. per cwt., ex store, London, for March-June delivery. Dutch *maize starch crystals* is 21s. on the spot, and American is 19s. 6d., ex store, London, for March-June delivery. Dutch *dextrin* is quoted at 22s. to 26s. per cwt. on the spot, as to quality. American *canary* for March-June delivery is 19s. 4½d., and white for March-June delivery 19s. 1½d., ex store, London. Dutch *farina* is quoted at 13s. 6d. per cwt. on the spot, and for shipment 12s. 1½d. per cwt. f.o.b. is wanted.

GINGER.—The exports from Sierra Leone during 1928 amounted to 20,431 cwt., valued at £30,582.

GRINDELIA ROBUSTA is offered at 6d. per lb. on the spot.

GUAIACUM has been selling lately at full prices; good glassy block is obtainable in limited quantity at from 2s. to 2s. 3d. per lb., and ordinary mixed part drossy sorts at 1s. to 1s. 3d.

HYDRASTIS is steady at 15s. per lb. on the spot.

MERCURY.—Home business has been largely in abeyance, but the tone is very steady at from £22 2s. 6d. to £22 5s. per bottle, less the usual discount. One or two inquiries are again reported for the Eastern markets, chiefly China. Actual export business lately has been more restricted. The f.o.b. price for shipment from Italy or Spain is £21 15s. per bottle.

OPIUM.—Owing to reports as to damage to the winter sowings, prices at the source are very firm and higher rates are asked, up to 1s 11d. per unit being quoted for usual Turkey druggists' quality on the spot. Reports are that the crop has been damaged to the extent of 60 to 90 per cent., but until confirmation has been received these reports are treated with reserve.

PEPPER has been quiet and lower on balance: fair black Singaporo has been sold at 1s. 4¾d. per lb.; May-July shipment is 1s. 2½d. c.i.f. Lampong is 1s. 5d. spot; March-May shipment has been sold at 1s. 3½d. to 1s. 3¼d. c.i.f. Tellicherry is 1s. 5¼d. spot, and March-May 146s. c.i.f. Alleppy is 1s. 5d. spot and March-May shipment 147s. c.i.f. White Muntok is 2s. 2¾d. spot; afloat has been sold at 2s. 1¾d. c.i.f. and March-May at 2s. 1¼d. c.i.f

RUBBER is rather better, spot having been done up to 11¼d. per lb. A fair business is passing at the moment, and manufacturers are quietly absorbing any cheap parcels that may be available. "Off" grades continue to fetch good prices, and in spite of the recent heavy arrivals importers are holding for full values. Stocks last week were further increased by 421 tons, and the London stock now stands at 28,077 tons, against 58,197 tons at the corresponding period last year. Quotations (Wednesday, 5 p.m.): No. 1 standard ribbed smoked sheet, spot and April, 11⅛d.; May-June, 11¼d.; July-September, 11⅜d.; October-December, 11⅜d. per lb.

SEEDS.—Owing to the Easter holidays the market during last week was exceedingly quiet and very little business passed. ANISE.—Spanish is 62s. 6d. and Russian 26s. 6d. per cwt. spot. CANARY keeps very firm, with prices still advancing: Mazagan is offered at 26s. spot and 25s. c.i.f. is quoted forward; Saffi is 26s. spot. CARAWAY.—Dutch is dearer at 41s. per cwt. spot. CUMIN.—Maltese is 55s. spot and Morocco is 48s. 6d. to 50s. CORIANDER.—Morocco is considerably easier for forward shipment; business has been done at 12s. c.i.f. FENUGREEK is firmer at 18s. 6d. to 20s. spot, and 19s. c.i.f. is quoted for forward shipment. LINSEED, although quiet, remains firm: Mazagan is 22s. on the spot. MUSTARD.—English is 27s. to 31s. spot. FENNEL.—Indian is 68s. spot and new crop is quoted at 59s. c.i.f.

SENEGA remains firm at 5s. 5½d. per lb. on the spot.

SHELLAC has been quite a holiday market: usual standard TN orange quality is 190s., fine orange 215s. to 300s., pure button 235s., and AC cakey 205s. per cwt. To arrive, TN for March-April shipment was sold previous to the holidays at 181s. c.i.f., since when value is 182s. 6d. c.i.f. Sales of TN for delivery include May at 187s 6d. to 188s. 6d., and August at 192s. 6d. to 193s. to 191s. 6d.

Essential Oils

BUSINESS has been quiet over the holidays and prices are being shaded by some holders even in the citrus oils, where the outlook is remarkably firm. Japanese dementholised peppermint, gingergrass for shipment and nutmeg are all easier. Rosewood is again lower and the actual price appears to be a matter of arrangement.

BERGAMOT.—The easy tone has been arrested, although inquiry is still poor. The value of 37-38 per cent. l.a. on the spot ranges from 20s. to 20s. 6d. per lb., according to seller.

CAJUPUT is quoted at 3s. 1d. per lb. c.i.f. for shipment, and is therefore cheap at 3s. 1d. to 3s. 2d. on the spot, according to quantity.

CEDARWOOD.—No efforts are being made by producers to increase production, and supplies are fairly abundant on the other side, although firm. The spot values are unchanged on the basis of 1s. 2d. per lb. in drums.

CITRONELLA.—Java is unchanged at 1s. 11d. per lb. on the spot, although replacement values indicate that this price is on the low side. Ceylon is steady at 2s. per lb. on the spot and 1s. 10½d. c.i.f.

GERANIUM.—Bourbon is firm at 19s. 6d. per lb. on the spot, with the shipment quotation at 19s. c.i.f. Algerian is available at 17s. 3d. to 17s. 6d. per lb. on the spot, but replacement costs are higher and about 18s. 6d. per lb. c.i.f. would have to be paid at the source.

GINGERGRASS is slightly easier for shipment at 8s. per lb. c.i.f., though held for 9s. 3d. on the spot.

LEMON.—The demand has been quieter and spot values are inclined to weaken in some directions, although there is no change in the critical nature of the position in Sicily. The arrivals over the holiday period have been fairly heavy. Genuine hand-pressed oil is worth 17s. 6d. per lb. on the spot. Californian oil has been selling rather freely at 13s. 6d. per lb. on the spot for standard quality in drums.

LEMONGRASS is unchanged at 2s. 10½d. per lb. on the spot and 2s. 9d. c.i.f.

MANDARIN is unchanged as quoted at 28s. per lb. on the spot.

NEROLI is scarce and the pure petale is now quoted at 52s. per oz.

NUTMEG is inclined to ease a little at 8s. 9d. per lb. c.i.f. and 9s. 3d. on the spot.

ORANGE.—Values of Sicilian are fairly steady although inclined to ease in a few directions. Offers for shipment are now freely made at 23s. per lb. c.i.f. and spot value is nominally 23s. 6d., although there are probably sellers at slightly less.

PALMAROSA.—Shipment is quoted at 11s. 6d. c.i.f., with the spot value at 12s. 3d. per lb.

PATCHOULI is more steady and has been in slightly better demand. Ordinary Singapore quality is quoted at 19s. per lb. on the spot, while Indian grade is worth 22s. The Seychelles product is available at 17s. 6d. per lb.

PEPPERMINT.—American natural tin oil is neglected, though prices are maintained at 12s. 9d. per lb. c.i.f. and 13s. to 13s. 3d. on the spot. H.G.H. has been shaded to 18s. 6d. per lb. on the spot. Japanese dementholised is easier at 6s. 4½d. per lb. on the spot for Kobayashi-Suzuki and the shipment quotations are 6s. 2d. c.i.f. for March-May and 6s. 3d. c.i.f. for June-August positions.

PETITGRAIN—Paraguay quality is firm at 7s. 9d. per lb. c.i.f., though unchanged at 8s. on the spot. The highest grade French oil described as "de Grasse" is quoted at 65s., while the ordinary good grade is worth about 48s.

ROSEWOOD (BOIS DE ROSE).—The position is extremely weak, and many holders have resorted to cutting in order to get rid of stocks. Some ridiculously low prices are therefore mentioned, and the state of the market is very favourable to consumers because a recovery to an economic basis is practically certain. Quotations vary over quite a range, but a reasonable price for good quality Cayenne is 6s. per lb. on the spot.

SASSAFRAS is in better demand at unchanged rates of 3s. 10d. per lb. on the spot and 3s. 7d. c.i.f.

SPEARMINT is unchanged on the spot at 19s. per lb. in spite of the cheaper quotations forward. The lower c.i.f. prices are said to be due to lack of demand as there is no other contributory factor.

The following arrivals have taken place from the countries indicated during the period March 27 to April 2 (inclusive): Bergamot (It.), 70 cs.; cajuput (Jv.), 1 dm.; camphor (Jp.) 14 cs., (Ch.) 5 cs.; cedarleaf (U.S.), 2 dm.; clove (Reun.), 5 cks.; eucalyptus (Aust.), 2 dm.; geranium (Réun.), 3 cks.; lemon (It.) 328 cs. 6 dm., (Ger.) 10 dm., (U.S.) 4 dm.; lime (Ger.), 1 dm.; orange (B.W.I.) 5 cs., (It.) 134 cs.; peppermint (U.S.) 12 cs. 3 dm., (Jp) 10 cs.; petitgrain (Fr.), 5 cs.; rose (Fr.), 1 cs.; sassafras (U.S.) 1 dm.; undescribed (Ger.), 17 dm., (Fr.) 52 cs.

Pharmaceutical Chemica's, etc.

THE important advance in prices for a number of products are all maintained with the exception of aspirin, where the price for imported has been brought down to the same level as home makes. A further big advance in the price of methyl sulphonal is recorded. Milk sugar is slightly easier; soda tartarata and pulv. seidlitz are dearer. Amidopyrin and phenazone are very firm and an advance in makers' prices is regarded as probable.

ACETANILIDE is steady on a quiet market, with B.P. crystals and powder quoted from 1s. 5d. to 1s. 6d. per lb.

AMIDOPYRIN continues to be offered on spot at 7s. 6d. to 7s. 9d. per lb. Makers' prices are firm and an advance would not be surprising.

ASPIRIN.—There has been some revision of prices for Continental make, with prices brought down to the level of home makers at from 2s. 3d. to 2s. 6d. per lb., as to quantity. The market is now very steady.

BARBITONE is unchanged, with spot offering at about 5s. 6d. to 5s. 9d. per lb., as to quantity.

BENZALDEHYDE (.03) is steady, with quantities in carboys at 1s. 10d. to 2s. per lb.; market dull.

BENZOIC ACID (B.P.) is very firm, with a good business moving: quantities, ex works, 2s. 1d.; spot parcels, 2s. 2d. to 2s. 3d. per lb.

BROMIDES are unchanged and business has been restricted; dealers quote: ammonium, 1s. 11d.; potassium, B.P. crystals, 1s. 7½d. to 1s. 7½d.; granular, 1s. 7d.; sodium, B.P., 1s. 9½d. to 1s. 10d. per lb., for quantities in cases. British makers' list prices: ammonium, 2s. to 2s. 3d.; potassium, B.P., 1s. 8½d. to 1s. 11½d.; sodium, B.P., 1s. 11d. to 2s. 2d. per lb., as to quantity.

CAFFEINE is now steady as quoted: pure cryst., 6s. 9d.; citrate, 5s. to 5s. 6d. per lb.

CALCIUM LACTATE is unchanged and quiet: quantities, 1s. 2d.; smaller lots, 1s. 2½d. to 1s. 3d. per lb.

CHLORAL HYDRATE is meeting with occasional business: duty paid crystals, 3s. 1d. to 3s. 3d. per lb., as to quantity.

CITRIC ACID (B.P. crystals).—There is no further change to report; the spot position is generally healthy on the quotations of 2s. 1d. to 2s. 2d. per lb., less 5 per cent., for foreign make. Forward quotations are also unchanged.

CREOSOTE (B.P.) is steady on a dull market: quantities in demijohns, 1s. 8d.; smaller parcels, 1s. 9d. per lb.

CREOSOTE CARBONATE is unchanged: spot is offered at about 4s. 8d. to 4s. 10d. per lb.

GUAIACOL CARBONATE is rather quiet at about 4s. 8d. to 4s. 10d. per lb., as to quantity.

HEXAMINE is holding at the advanced figures quoted last week: prices are now steady at 2s. 4d. to 2s. 6d. per lb.

HYDROQUINONE is about steady as quoted at 3s. 9d. to 3s. 11d. per lb., and a shade less for big quantities.

LACTIC ACID (B.P.) is steady at Convention prices: five-ton lots, 1s. 6½d. up to 1s. 10½d. per lb. for small parcels.

METHYL SALICYLATE (B.P.).—The home makers' prices as notified last week are steady: one-ton, 1s. 6d.; 10 cwt., 1s. 6½d.; 5 cwt., 1s. 7d.; one cwt., 1s. 7½d.; small lots, 1s. 8d. per lb., in demijohns, charged extra.

METHYL SULPHONAL shows a further very considerable advance, with the price now firm at 18s. 6d. to 20s. per lb. as to quantity; a fortnight ago the spot value was about 9s.

MILK SUGAR.—Dutch is slightly easier at from 53s. 6d. to 55s per cwt., according to quantity.

PARAFORMALDEHYDE is unchanged on a quiet market: 100 per cent. powder, 1s. 7d. for quantities in kegs; small parcels, from 1s. 8d. per lb.

PARALDEHYDE is steady on a dull market: 1s. 1d. to 1s. 3d. per lb., as to quantity and packing.

PHENACETIN.—The new rates quoted last week are holding well: as to quantity, 2s. 6d. to 3s. per lb.

PHENAZONE is firm at the advanced prices of 3s. 9d. to 4s. per lb., as to quantity. Makers' prices are firm and a further advance is regarded as probable.

PHENOLPHTHALEIN is fully maintained at Convention prices: 5s. 11d. to 6s. 1½d. per lb., as to quantity.

POTASSIUM PERMANGANATE (B.P.) is steady on a quiet market: quantities, in drums, 5½d.; smaller parcels, from 6d. per lb.

POTASSIUM SULPHOGUAIACOLATE continues unsteady: quoted from 3s. 8d. to 4s. 3d. per lb.

RESORCIN is steady on a quiet market: quoted from 2s. 9d. to 2s. 11d. per lb., as to quantity.

SALICYLIC ACID (B.P.).—The home makers' new prices continue steady: 10 cwt., 1s. 5d.; 5 cwt., 1s. 5½d.; two cwt., 1s. 5¾d.; one cwt., 1s. 6d; small parcels, 1s 7d. per lb.

SODA TARTARATA.—On account of the continued advance in tartars, the makers of soda tartarata B.P. powder have been compelled to advance their prices by 5s. per cwt., and now quote five cwt. in one delivery at 102s. 6d. per cwt.; under five cwt., 105s., and under one cwt. 107s. 6d.; crystals, 5s. per cwt. extra. Pulv. seidlitz, B.P., is now 81s. 3d. for five cwt. in one delivery, 83s. for under five cwt., and 85s. for under one cwt.

SODIUM SALICYLATE (B.P.).—The position continues as notified last week, with the market steady. Continental make, to arrive: crystals, 2s. 6d. to 2s. 7d.; powder, 2s. 3d. to 2s. 4d per lb., as to quantity. British makers' prices: powder, 10 cwt., 2s. 2d.; 5 cwt., 2s. 2½d.; 2 cwt., 2s. 2¾d.; one cwt., 2s. 3d.; small parcels, 2s. 4d. per lb.; crystals, 1d. per lb. more.

SULPHONAL is still quoted at 10s. to 10s. 3d. per lb., but a further advance is contemplated.

TANNIC ACID is unchanged, with quantities of B.P. *leviss* at 2s. 10d.; small parcels, about 3s. per lb.

TARTARIC ACID is firm on a bright market; quantities of foreign B.P. crystals, 1s. 4¼d. to 1s. 4¾d. per lb., less 5 per cent.

THYMOL is steady on a slow market: synthetic fine white, 9s. 3d. to 9s. 6d. per lb.; ex ajowan seed, about 11s. 3d. per lb.

VANILLIN is steady but still generally quiet: 100 per cent. from cloves, 17s. to 17s. 6d.; ex guaiacol, 14s. 9d. to 15s. 3d. per lb.

Industrial Chemicals, etc.

London, April 3.

OVER the holidays there is little change to record and business has been generally quiet. Formaldehyde is unsteady and acetate of soda is inclined to weaken. Cream of tartar is firm. ACETIC ACID continues steady with a moderate business moving: 80 per cent. technical, £36 15s.; 80 per cent. pure, £36 per ton, in barrels; 99 to 100 per cent. glacial, pharmaceutical, £66, in glass demijohns; glacial, in barrels, £56 per ton, ex store. ARSENIC is quiet and the current quotation for Cornish 99 per cent. white powder is fully £16 per ton f.o.r. mines; Mexican high-grade is still offering at about £17 c.i.f. Liverpool. COPPER SULPHATE.—There was very little doing over the holidays, but the tone is firm, with sellers asking about £34 10s. to £35 f.o.b. for casks, less 5 per cent. The course of the market hinges chiefly on the price of rough standard bars, which is very uncertain, while it is reported that a considerable tonnage may be taken up for shipment to America for conversion into refined metal. CREAM OF TARTAR is unchanged on a very steady market, with 99 to 100 per cent. foreign at 95s. 6d. to 97s. 6d. per cwt., less 2½ per cent. EPSOM SALT remains quiet, with spot parcels of commercial quality at about £4 per ton, in single bags, ex store; slightly less forward. FORMALDEHYDE is unsteady owing to keen competition and the market quotation for 40 per cent. by volume of £36 per ton, in casks, is easy for quantities. FORMIC ACID is steady, but business remains poor: 85 per cent., £46 to £46 12s. 6d. per ton, in carboys, ex store. GLAUBER'S SALT is unchanged with spot parcels of commercial quality at about £3 10s. per ton, in single bags, ex store; slightly less forward. LEAD ACETATE is firm on a quiet market: spot, brown, £40; white, to £41 per ton, in casks, ex store. LITHOPONE is meeting with fair business on a steady market: 30 per cent. Continental red seal, £19 10s. per ton, in casks, ex store; slightly less for contracts. POTASSIUM PERMANGANATE is steady on a poor market: commercial quality, in two-cwt. drums, 5d. to 5¼d. per lb., ex store. SODIUM ACETATE is quoted on a quiet market at about £21 per ton, in casks, ex store. SULPHUR is very steady: American crude is £5 12s. 6d. to £5 17s. 6d., and Sicilian flowers are quoted £12 7s. 6d.; refined ground £11, and roll £9 15s. per ton, all c.i.f. to arrive. COAL-TAR PRODUCTS, ETC.—The market has remained quiet throughout and prices are unchanged. PITCH continues dull and unchanged on quotation.

Fixed Oils, etc.

OVER the holidays these markets have been quiet and there is little change in quoted values, except that prices for American turpentine are much easier and palm oils are again lower. ACID OILS.—Prices are maintained on a dull market: coconut and/or palm kernel, 33s. 9d.; ground nut, 31s. 9d.; soya, 28s. 3d. spot. CASTOR is unchanged and dull: pharmaceutical, 51s. 6d.; first pressings, 46s. 6d.; second pressings, 44s. per cwt., in barrels, on the spot, in not less than one-ton lots. COCONUT remains quiet: deodorised, spot, 47s. 6d.; Ceylon, 36s. c.i.f.; Cochin, 43s. c.i.f. COTTON has been quiet: deodorised, 38s. 6d.; common edible, 36s.; soapmaking, 34s.; crude, 31s. spot. GROUND NUT has been slow: deodorised, spot, 45s.; crude Oriental, 38s. 6d. c.i.f. PALM KERNEL continues quiet: deodorised, 46s.; crude, 38s. spot. PALM.—Prices for all grades are cheaper and the market has been dull over the holidays, reopening slack: Lagos, 35s. 9d.; softs, 35s. 3d.; mediums, 36s.; hards, 36s 6d.; bleached, 38s. 9d. spot. RAPE has remained quiet: refined, 46s. 6d.; crude, 44s. 6d. spot. SOYA has been slow: deodorised, 40s.; crude, 34s. 6d. spot. LINSEED (raw, naked).—Prices are being well maintained on a firm market: on spot, 29s.; April, 28s. 1½d.; May-August, 28s. 7½d.; September-December, 29s. 3d.; boiled oil, on spot, 33s. 6d. Hull, on spot, 28s. 4½d.; April, 28s. 4½d.; May-August, 28s. 7½d.; September-December, 28s. 10½d. TURPENTINE.—The market weakened considerably under advices stating that owing to a spell of warm weather the new crop is already under way in America. The position is unsettled, and on Wednesday market closed easy at 42s. 9d. per cwt., and May-June 43s. Latest week's deliveries were only 1,227 barrels, making since January 1 a total of 22,014 barrels, against 25,547 barrels the same period last year. Stocks were returned at 20,404 barrels, which, together with landings and afloats, made the London visible supply 23,804 barrels, against 43,585 barrels a year ago. RESIN.—Prices fell again, c.i.f. terms being as follows for American: B/D 16s. 3d. to 16s. 7½d., F/G 18s. 6d., K/M 19s., N 20s., W/G 20s 6d., and W/W 21s. 9d. Terms ex wharf are 6d. per cwt. more except W/W, which is scarce at 24s. 6d. WOOD is quiet at 73s. per cwt., in barrels, on spot. LUBRICATING, MINERAL, BURNING OILS, ETC.—With the holidays intervening these markets have remained quiet.

Discounts on Quinine in U.S.A.

AN American contemporary states that "Uniformity of open quotations made by American, Dutch, Swiss, or Japanese producers—in fact, by every quinine maker in the world—is a unanimity more apparent than real. Rather than being a selling price, it is more properly to be called a base price. For sulphate, it is 40c. per oz. There are some buyers who pay it—small ones. Those with large contracts to place do not. What they pay depends on how successful the buyers are at negotiation. Success is gauged in terms of discounts. Some pay 40c. per oz. net. Others get one per cent. discount. Others are successful in buying at 5 to 10 per cent. discount. And it is not entirely certain that the custom of giving upwards of 15 per cent. discount has been entirely abandoned. The methods vary by which buyers arrive at a net cost to them; it is often a matter of book-keeping. There is some reason to believe that "fireworks" in quinine did not end permanently when the Dutch makers last year signed a consent decree before a United States judge.

Italian Citric Acid

ACCORDING to a recent report of the "Banco di Sicilia," the citrus by-products industry in Sicily is so unnecessarily split up that there is no possibility of a harmonious and integral development of it leading to the reduction of production costs. In Sicily a clear distinction is usually made between lemon growers, essential oil factories, calcium citrate producers and citric acid plants. Sicilian manufacturers of citric acid frequently process crude lemon juice purchased directly from the "trappeti" or fruit presses and extract therefrom fair quantities of alcohol. If the manufacture of calcium citrate were centralised in a few large plants instead of being, as it is, scattered among numerous small factories, it would be possible to obtain 1½ litres of alcohol for every six kilos. of calcium citrate; therefore, out of an average production of 6,000 tons of citrate it will be possible to obtain as a coproduct 15,000 "ettanidri," or 15,000 hectolitres of alcohol 95 per cent. pure. This last observation suffices to illustrate the advantages that would accrue from centralisation of the industry.

MAJORCA OLIVE OIL.—The olive crop of 1927-28 was a "record" one, the total production amounting to: olives, 477,160 metric quintals, and oil, 112,011 metric quintals. These totals appear to be about a tenfold increase over the average crop. The crop for the season 1928-29 is negligible.

Correspondence

Letters for this section should be written on one side of the paper only. Correspondents may adopt an assumed name for purposes of publication, but must in all cases furnish their real name and address to the Editor.

Large Doses in Prescriptions

SIR,—The reference in the issue of the *C. & D.*, of March 30 (p. 401), to the necessity for prescribers marking their intentions clearly on prescriptions containing doses in excess of the B.P. margin is worth emphasising. A good deal of uncertainty and trouble would thus be avoided. The conclusion of "Overdose," that where there is no conclusive marking the B.P. maximum should be substituted is, however, to be received with caution. If the large dose indicated on a prescription is merely a slip on the part of the prescriber, it by no means follows that his intentions are carried out by dispensing a maximum dose. In all probability he has no such intention, and the dispenser's deliberate maximum dose may do as much harm as the prescriber's unintentional overdose. The only safe rule in all cases of this sort is to "consult the prescriber." Only thus can the dispenser be sure of his ground and avoid trouble.

Yours, etc.,
SAFETY FIRST (2/4).

A "Welfare" Recipe

SIR,—It would be a pity to waste this choice specimen of welfare (?) work, so I crave your indulgence. The honour was not mine of dispensing this prescription, and incidentally making a fortune. (I'm rather glad.) Here it is :—

"For Wheezing or Cough in Babies. Rub chest with 3 oils. One-third of ambergris, one-third of eucalyptus, one-third of camphorated. Mixture can be bought at chemist's, price 4d. per oz. Take own bottle. Baby NOT TO BE WASHED AT ALL. Rub body with Olive Oil.

A true copy of the original. The whimsical joker who got it suggested to the anxious parent that the price would be a little more. "Oh, that won't matter," said the A.P.; "how much?" "£4." Interval for recovery for collapsed A.P. Later, the chemist explained that it was the law of the land that prescriptions must either be dispensed exactly as written, or returned to the prescriber, but as he thought he knew what was intended, he would be willing to use his expensive and highly-trained dispensing knowledge and supply the ingredients for the snm of four pence. Anxious parent was relieved; pharmacist's till was amplified by 4d., so everyone concerned was satisfied—more or less. The only comment the pharmacist made to me was that they might at least have preserved the harmony of the whole by ordering amber grease; and that if the instructions about washing the baby were followed literally and permanently, ambergris might after all come in useful, to make the baby even tolerable to a society where the bath is not too frequently used. The hot cross bun has been fully earned by those in charge of a welfare centre. I wish the pleasure of making the presentation belonged to—Yours, etc.,

GEORGE F. CORRALL.

Enfield Wash.

Border-Line Articles

SIR,—Your suggestion that a separate insurance fund should be provided for those articles which are on the border-line between foods and drugs (*C. & D.*, March 16, p. 331) is an admirable one, and would seem to be the best way out of the difficulty. Such items could be prescribed on a differently coloured prescription form, as used to be the case with tuberculosis scripts; they would then be recognisable at sight, and it would also afford an easy method for the pricing bureau to keep an eye on the amount prescribed by individual doctors. When we read that over £4,000,000 was spent on dental, ophthalmic, and nursing services, against the £2,000,000 received by chemists for the supply of drugs and appliances and their services as well, it should not be a difficult matter to allocate the comparatively small amount required for these preparations and to relieve the drug fund of the charge, besides settling the difficulties of the pharmacist about what he can or cannot supply. Referring to the drug fund, it is very nice to receive a bonus of 4 per cent. for last year, but it is put in this way because the Ministry insist on the accounts for each year being closed and complete; in reality, we are level for 1928 and still 8 per cent. down on the payments for 1927. However, 4 per cent. is better than nothing, and it is a good time to receive it, partly because it was unexpected and also because it will help us to swallow whatever discounting may be caused by the present epidemic with a better grace. Such a fund as you suggest might be available also for the use of these items in preventive medicine, and, if used judiciously, could go a long way to relieving the drug fund by the prevention of illness which might otherwise cause a drain on it. Many complaints are brought on by insufficient nourishment or improper feeding, or by conditions of over-work or strain; and the recognition of an incipient breakdown in health might lead to its prevention by the prescribing of some product now classed as a food, and unobtainable on the panel. The best illustration of the difficulty under which we labour at present is the one you give of irradiated ergosterol; most pharmacists would dispense it in the form of tablets without hesitation, and would probably be equally decided not to do so if prescribed in chocolate. —Yours truly,

VITAMOID (26/3).

Heroin Restrictions

SIR,—This heroin position points to a good deal of lethargy in the medical ranks, as well as our own. Every pharmacist must have experienced the annoyance of having to refuse supplies, with very little to say in excuse. With memories of the arctic spell in February, and the lengthened obituary columns, there must have been many cases of deprivation and discomfort as the result of this absurd restriction. A victim myself, I wrote to Sir William Joynson-Hicks on the matter; the only result was a reminder that the doctor could order the script to be repeated twice or thrice. In my own case I used a substitute, which so far represents the difference "'twixt tweedledum and tweedledee." But why should pharmacists always take this kind of thing lying down?—Yours, etc.,

ANTIM. TART. (2/4).

Are Chemists' Windows so Valueless?

SIR,—I heartily agree with "M.P.S.I." (*C. & D.*, March 30, p. 401). It is surely time chemists woke up so as not to lend their profession and pharmacies to the gulling of the public for a mere "thirteen to the dozen." I should say that managing director referred to by "M.P.S.I." has unconsciously shown us the necessity of definitely sweeping away these patent-medicine window shows, if, as he admits, they have made our windows so unattractive. Most of them are but a repetition of the advertisements in the daily papers and periodicals. When the passing eye catches a familiar word in a window the owner does not need to stop to read about it—he has already well digested it through his daily paper. Hence it is valueless, except to catch another victim. He may be worth sixpence to the makers, but *nil* to the proprietor, I say. I reckon my windows are worth as many pence as seconds, but they are never filled with patent-medicine advertisements and shows. These vendors have found chemists so obliging and pliable in the past that their demands for time and space in windows are ever increasing. Their numbers are growing weekly, which proves the success of the campaign, and that at such a moderate outlay, trivial compared with cost of press and hoardings advertisements. I feel certain, if all were taken advantage of, these bonus shows would fill the chemists' windows for the full 365 days of the year. Let us thank "M.P.S.I.," rub the dust from our eyes at once and see our *own* windows, as patent-medicine vendors do, "sterling," and not sterile.—Yours truly,

NOT PRO (2/4).

Subscribers' Symposium

For interchange of opinion among "C. & D." readers and brief notes on business and practical topics

P.D.A. Council Election

Mr. G. Nicholson, chemist and druggist, Ryde, Isle of Wight, writes pointing out that chemists represent 75 per cent. of the photographic dealers in the country, and suggests that they should record their votes for the chemist dealer who is standing for the P.D.A. Council.

Potassium Chlorate Tablets in the Pocket

A. H. (7/3) writes that during the recent spell of cold weather a few cases of burns have resulted from potassium chlorate tablets being carried loose in the pocket and coming into contact with the friction surface of safety match boxes. He suggests that purchasers of these tablets should be warned that they should never be carried loose in the pocket, and that some notice to that effect should be attached to the containers in which they are sent out.

Legal Queries

Lichen (3/84).—The use of the words "A Preventative of Influenza" renders the preparation liable to medicine stamp duty.

5 GB (23/83).—Is a woman, aged thirty, who is eligible to vote, entitled to disclaim this privilege and have her name omitted from the list of voters? If not, is she obliged to exercise her right to vote? [She is not entitled to have her name removed from or kept out of the list of electors, but, if she chooses to do so, she may abstain from voting.]

C. E. C. (25/83) is about to employ a woman in his business during the afternoons only, for which she will be paid 30s. weekly. She will live on the premises, and for the rest of her time will be engaged in household duties. Will she have to be insured under the National Health and the Unemployment schemes? [She will have to be insured under both schemes.]

M. M. B. (26/83) was persuaded by the representative of a firm to buy a machine on the hire-purchase system upon the understanding that he (the representative) would deduct the final instalment of £4 from the account. "M. M. B." has now paid all the instalments except the last, for which he has received a demand, as the arrangement entered into by the representative is repudiated by the firm. Is not this a case of a sale by misrepresentation? [If the arrangement referred to was made by the representative without the knowledge or authority of his principals, they cannot be accused of misrepresentation, and "M. M. B.'s" only remedy is against the representative personally. If he can establish that a binding contract for the remission of the final instalment was entered into by the representative, "M. M. B." may be able to recover the £4 from him.]

Dubvan (7/3) seeks relief in respect of his son, a whole-time pharmaceutical apprentice and student of a pharmaceutical college. The inspector of taxes' view, however, is that the son is not receiving full-time instruction within the meaning of Section 21 of the Finance Act, 1920. The point "Dubvan" raises is, "What is the legal definition of full-time instruction? [To conform with the interpretation of Section 21 of the Finance Act, 1920, your son must be receiving full-time instruction at a school, university or other educational establishment. It seems, however, that he is a whole-time apprentice, which would preclude you, as his father, from seeking relief under this section. The wording of the section is very definite on this point, but if the syllabus of the examinations is studied, it will be found that a fixed number of hours in open shop forms part of the conditions to be fulfilled. THE CHEMIST AND DRUGGIST Educational Number, showing these conditions, should be put before the inspector or the commissioners, and we consider that this will prove a strong point as the basis for obtaining this relief.]

Miscellaneous Inquiries

When samples are sent particulars should be supplied to us as to their origin, what they are, what they are used for and how. We do not undertake to analyse and report upon proprietary articles nor to publish supposed formulas for them.

A. A. (21/3).—The following are the formulas for which you ask:—

HONEY AND FLOWERS

Oil of orange (sweet)	10 oz.
Oil of lemon	5 oz.
Oil of bergamot	2 oz.
Oil of clove	½ oz.
Oil of lavender (French)	1½ oz.
Geraniol (palmarosa)	1 oz.
Coumarin	½ oz.
Musk (synthetic)	¼ oz.
Castor oil	2½ pints
Colouring	q.s.
Industrial spirit	2½ pints
Peach kernel or mineral oil	5 gall.

If a suspicion of honey odour is desired, add one or two drachms of phenyl acetic ether (the odour develops after a week or so).

BAY RUM

Oil of bay, terpeneless	5 oz.
Oil of pimento, terpeneless	2 dr.
Oil of orange (sweet)	1½ dr.
Amyl acetate	1½ dr.
Acetic ether	1½ dr.
Chloroform (methylated)	½ oz.
Ether (methylated)	½ oz.
Methyl iso-eugenol	½ oz.
Dry extract of quassia	1 oz.
Saponin	2 dr.
Industrial spirit	3 gall.
Water	2 gall.

It would take 1 oz. of quinine to replace the 2 drachms of saponin.

These formulas must be submitted to the Board of Customs and Excise for permission to use industrial alcohol.

HONEY-AND-ALMOND CREAM

Cold cream	½ oz.
Almond oil	½ oz.
Glycerin	½ oz.
Boric acid	1 oz.
Solution of soda	1½ oz.
Quince mucilage (1 dr. seeds)	5 oz.
Water	to 5 pints

Stir the cold cream, almond oil and solution of soda together until a soapy emulsion is obtained; dissolve the boric acid in three pints of warm water, add the glycerin and quince mucilage. Add the mixture to the emulsion slowly and with constant stirring. Perfume with spirit of almond and rose.

A revised edition of "Pharmaceutical Formulas" is in the Press and will be available shortly.

Will *Pharmacien* (27/3) be good enough to supply his full name and address?

H. J. C. (29/38).—HAIR SETTING LOTION.—*See C. & D.*, 1928, II, 682.

C. W. F. (2/48).—HORTICULTURAL SPRAYS.—*See C. & D. Diary*, 1928.

Radix is requested to communicate his present address, since two letters in reply to his inquiry have been returned.

Retrospect of Fifty Years Ago

Reprinted from
The "Chemist and Druggist," April 15, 1879

Liverpool Registered Chemists' Association Dinner

After the loyal toasts had been duly and heartily honoured, the president, Mr. A. Redford, proposed the toast of "The Registered Chemists' Association of Liverpool." He claimed that it had borne its part in the reformation of some of the blemishes of the trade, such as inordinate hours of business and want of neighbourly feeling, and by the issue of a price list, that might now be found in a great part of the chemists' shops throughout the country. He paid a well-deserved tribute to the services of past officers of the association, and coupled with the toast the names of the treasurer, Mr. R. Parkinson, and the hon. secretary, Mr. B. Dickins. The former . . . expressed his strong desire for the closing of chemists' shops on Sunday, as public requirements regarding medicines were met by answering the door bell. Mr. J. Fingland proposed "The Liverpool Chemists' Association," which was acknowledged by Mr. T. F. Abraham and Mr. E. Davies, F.C.S.

THE CHEMIST AND DRUGGIST

COMMERCIAL COMPENDIUM

deals with the trade side of pharmacy

[Commenced *C. & D.*, July 5, 1924]

Quercitol.—Quercitol or acorn sugar is a five hydroxyl derivative of hexahydrobenzene, and is related to inositol or muscle sugar. It is found in acorns and in the leaves of *Chamærops humilis*, and is a colourless solid which melts at 235° and is dextro-rotatory, $[\alpha] + 24.16°$. A lævo-rotatory quercitol, m.p. 174°, $[\alpha] -73.9°$ has been found in the leaves of *Gymnema sylvestre*. These are members of the group of inositols, natural compounds, which are hydroxy derivatives of hexahydrobenzene. *See* Phytin.

Quercitron—This name is given to the bark of the black oak, *Quercus velutina*, Lamarck, a species of oak tree found in North America, especially in the forests of Pennsylvania, Georgia and the Carolinas, the bark from New York, Philadelphia and Baltimore being the most highly esteemed. The bark, deprived of epidermis, is dried and ground between millstones. The bark is now seldom or never used by dyers, but the colouring matter of the bark is extracted and sold under the name of flavine. The yield from 100 parts of quercitron bark should be 85 parts of flavine with a dyeing power equal to 250 parts of the bark. The bark gives a fine yellow to woollen goods, but the colour reddens by exposure, and its use is on the decline. The bark resembles that of the common oak, *Quercus Robur*, Linn., but the suberous layer, which is generally removed, is of a blackish brown colour, the inner bark is of a deep reddish brown colour with a yellowish tint. Like oak bark, it is usually kept in a coarse powder, and its value depends on the fineness of the powder, as the woody portions contain less colouring matter. When masticated it tinges the saliva bright brown yellow, due to the presence of quercitrin, which has been found in many plants. Quercitrin is deposited on cooling from a decoction of the bark, and forms, when pure, a crystalline, nearly tasteless and inodorous powder. It is sparingly soluble in hot and nearly insoluble in cold water. It dissolves in about five parts of alcohol and slightly in ether. It is coloured dark green by ferric chloride, also when dissolved in alkalies, but becomes dark brown on exposure. Its formula is $C_{33}H_{30}O_{17}$. Treated with acids it splits up into the crystalline unfermentable sugar isoducite, $C_6H_{14}O_6$, and into quercetin, $C_{27}H_{18}O_{12}$, which is also yellow and crystalline, and is found already formed in many plants.

Queues de Cerise, cherry stalks, are used as a diaphoretic tea, usually 1 in 10, in France.

Quevenne's Iron is ferrum redactum, finely powdered iron containing 80-90 per cent. metallic iron, prepared by reducing ferric hydroxide with hydrogen.

Quicklime or calcium oxide, CaO, is prepared by heating calcium carbonate or limestone. This may be done in a kiln into which the limestone and fuel is fed alternately, and the burnt or quicklime raked out and its place supplied by a fresh layer of limestone and fuel. This is an example of the continuons or draw kiln which may be vertical or rotary. The latter may be worked at lower temperatures, but cannot be used if the lime is required in large lumps. In the intermittent kiln the limestone is supported on an arch built with large lumps of the stone above the fire which is kept burning for about seventy honrs. Lime is sold in lumps having roughly the form of the original broken limestone, greyish-white in colour, porous, of s.g. 3.3, which, however, varies with the nature of the limestone and the temperature of burning. The usual test of the quality of commercial lime consists in sprinkling it with water, with which it should combine with evolution of heat, swelling to about two and a-half times its bulk, and crumbling to a white powder of calcium hydroxide, slaked lime. Lime which behaves like this is termed *fat* lime. If it slakes feebly it is termed *poor* lime, and is known to contain a considerable proportion of foreign substances as silica, alumina, magnesia. Lime is said to be overburnt when it contains hard cinder-like masses of silicate of lime, formed by the combination of the silica, which is generally found in limestone, with a portion of the lime under the influence of excessive heat of the kiln. Air-slaked lime is lime that has been slaked by simple exposure to air, and has absorbed carbon dioxide as well as water. A good quality lime should contain 99 per cent. of CaO with only traces of silica, magnesia, alumina, iron.

Quietol is the trade name for dimethylamino-dimethyl *iso*—valeryl propyl ester hydrobromide.

Quillaia.—This is the bark of a large tree, *Quillaia saponaria*, Molina (N.O. *Rosaceæ*), indigenous to Chile and Peru. The bark is called " cullary " by the natives. It was known to Europeans in the early part of the eighteenth century, and was regularly sent to France in 1857 nnder the name of Bois de Panama, indicating the route by which it comes. The bark appears in commerce now in large flat pieces up to about one metre in length, 10 to 15 cm. broad, and about six mm. thick. It is freed from the outer dark brown portion before drying, but is longitudinally streaked, and shows patches of the brown outer layer where it has been imperfectly removed. The inner surface is white or yellowish-white and smooth. The fracture is coarse and splintery, and the bark has an evidently laminate structure. The surfaces of the laminæ are more or less glittering with minute prismatic crystals of oxalate of calcium. The powdered bark is exceedingly irritating to the nostrils. The transverse section has a somewhat chequered appearance, due to tangential bands of bast parenchyma being crossed by radial lines of medullary rays, the bast fibres forming the dark portions between. The chief use of the bark is as a substitute for soap in washing silk and other delicate textiles, and in making frothing solutions. Comparatively little is used medicinally as a stimulating expectorant in bronchitis, due, apparently, to a reflex action on the nerves of the stomach, and as a remedy in dyspnœa. A second variety of qnillaia bark appeared in British commerce in 1906. It is thinner and more brittle, has a distinctly reticulated outer brownish surface, with a coarse network of whitish lines, and contains less quillaia. (See " Pharmaceutical Journal," 1910, p. 69.) This has been referred to a different species, possibly *Q. Poppigii*, Walp. A third variety has also been imported in quilled pieces, about 15 c.m. long, and 2.5 c.m. wide, and about 3 m.m. thick, and it is softer and not laminated. It is supposed to be the bark of *Quillaia smegmadermos*, De Candolle. The chief constituents of the bark are two toxic glucosides, quillaie and quillaia-sapotoxin. Both possess the frothing property characteristic of saponin. Commercial saponin is chiefly obtained from quillaia bark, and is usually a mixture of quillaic acid and quillaia-sapotoxin, and frequently also contains a non-toxic modification of quillaic acid produced by hydrolysis, during the preparation of saponin.

Quillaic Acid.—Quillaic acid, $C_{19}H_{30}O_{10}$ is the acid glucoside obtained from the bark of *Quillaia saponaria*, and is a constitnent of commercial saponin. The pure glucoside is non-poisonous, and forms white flakes, which become red on treatment with strong sulphuric acid.

Quinalgene, or analgen, is *o*-ethoxy-monobenzoyl-amidoquinoline, $C_{18}H_{16}N_2O_2$, and occurs in colourless crystals, insoluble in water, m.p. 208° C. The name analgen was first given to the acetyl derivative, bnt it was found that the benzoyl radical gave a more desirable product, and this is now made and the name analgen applied to it. It is antipyretic, analgesic and antimalarial in doses of 0.5 to 1 gm.

Quinaphthol is the trade name for quinine β-naphthol-sulphonate.

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Quinaseptol, diaphthol, *o*-oxyquinoline-metasulphonic acid, $C_9H_5N.OH.SO_3H$, occurs in yellow-white crystals, m.p. 295° C. It is a non-toxic substance and was introduced as a urinary disinfectant.

Quinazoline, or phenol-*m*-diazine, is prepared by treating a cooled alcoholic solution of *o*-formylamino-benzylamine with zinc and dilute hydrochloric acid, precipitating the zinc chloride double salt, converting this into the chromate and decomposing this with aqueous potassium hydroxide. The 3: 4—dihydro-quinazoline is oxidised to quinazoline by treatment with an alkaline solution of potassium ferricyanide. Quinazoline forms yellow crystals smelling like naphthalene, m.p. 48—48.5° b.p. 243°. Alkyl-quinazolinium salts with methyl and ethyl halides have been used to lower blood pressure.

Quinetum is the name applied to the mixture of amorphous bases of cinchona bark, the crystallisable alkaloids having been previously removed.

Quinia Flower.—The root of *Sabbatia elliotlii;* used as a tonic and anti-periodic.

Quinic Acid and Quinates.—Quinic acid, hexahydrotetraoxybenzoic acid, $C_7H_{12}O_6$, was isolated by Hofmann in 1790 from the calcium quinate. It exists in combination in a number of plants. Quinates cannot be prepared immediately from the bark in a pure state, and quinic acid is separated as follows: Calcium quinate, the residue obtained in the manufacture of quinine sulphate, is decomposed in aqueous solution by oxalic acid, the calcium oxalate is filtered off, and the filtrate evaporated until crystallisation takes place; or, an infusion of cinchona bark is evaporated until a solid residue is left, the extract is then treated with alcohol, which removes the mucilage and leaves the calcium quinate, which is rather insoluble. The calcium quinate is dissolved in water and crystallised. The crystals are purified by recrystallisation and the pure salt dissolved in water and decomposed with oxalic acid. The quinic acid may be obtained as crystals or as a thick syrupy liquid. The crystals are transparent, colourless, with a sour taste, soluble in two parts of water, insoluble in ether, and sparingly soluble in alcohol. Quinic acid or a quinate heated with manganese dioxide and sulphuric acid yield kinone or quinone, $C_6H_4O_2$, in yellow crystals. This reaction serves to identify quinic acid. *Cinchonine quinate* is soluble in water and alcohol, and has a bitter astringent taste. *Quinine quinate* is soluble in water and alcohol, has a bitter taste, and crystallises in opaque or semi-transparent groups. Esters of quinic acid and compounds with synthetic bases have been introduced

Quinoa.—The seeds of *Chenopodium quinoa,* Willd. N.O. Chenopodiaceæ, cultivated in S. Peru and S. Chili. They are about the size of white mustard seeds, but flatter, and give a flour resembling oatmeal. About 40 per cent. of the seeds is starch, sugar 5 per cent., casein 7½ per cent., protein compounds 11 per cent. Another variety, red quinoa, contains a bitter principle in the husk and is used as an emetic and antiperiodic.

Quinoform, or chinoform, is a neutral quinine formate prepared by the action of formic acid on quinine. It forms lævorotatory crystals, m.p. 132°, containing about 88 per cent. of quinine, the solubility varying with conditions of manufacture. The compound is suitable for hypodermic injections.

Quinoidine.—This term was formerly applied to all the amorphous alkaloids existing naturally in cinchona bark, but is now used to define a complex substance consisting largely of alkaloidal products resulting from the application of heat. In the preparation of quinine sulphate, after the crystallisation of the salt, on evaporation of the mother liquor, a dark-coloured extract is obtained and was supposed to contain a new alkaloid to which Sertürner gave the name quinoidine or chinoidine. It was subsequently proved that quinoidine consisted of two alkaloids, derivatives of quinine and cinchonine, with which they are respectively isomeric, though uncrystallisable. These have been named quinicine and cinchonicine. The pure amorphous quinine of Liebig was the former of these alkaloids. Quinoidine has been termed amorphous quinine, and is used as an antiperiodic, though inferior to other cinchona alkaloids.

Quinol.—*See* Hydroquinone.

Quinoline.—Quinoline, leucoline (C_9H_7N), was isolated from coal-tar oil of high boiling point by Runge. Subsequently it was prepared by distilling quinine, cinchonine, or strychnine with caustic potash. The product from both sources is not pure, but is a mixture of quinoline with some of its homologues. The pure base has been obtained by distilling cinchonic acid with lime or cinchonine with a mixture of caustic potash and copper oxide, or by heating a mixture of aniline, glycerol and sulphuric acid with oxidising agents such as nitrobenzene. This mixture is boiled in a reflux, unchanged nitrobenzene removed by a current of air, the product rendered alkaline with caustic soda and the quinoline obtained by distillation with steam. The crude quinoline is freed from unchanged aniline by fractionation and further purified by oxidation with dichromate mixture, or by treatment with nitrite and acid followed by steam distillation from alkaline solution. Quinoline is a colourless oily liquid, b.p. 237.1°, with a penetrating odour and bitter, acrid taste, sparingly soluble in water but dissolved by organic solvents. Quinoline derivatives are employed as dyestuffs and as antipyretics and antiseptics.

Quinones are substances derived from aromatic hydrocarbons by replacement of two hydrogen by two oxygen atoms. The earliest known member of the series, para-benzoquinone (or quinone), was obtained by the oxidation of various substituted benzenes. For a classification of the quinones a chemical encyclopædia should be consulted.

Quinopyrin is the trade name for a mixture of antipyrin and quinine hydrochloride, used in treatment of malaria by subcutaneous injection.

Quinovin, $C_{38}H_{62}O_{11}$, was first found in false bark or new bark, and has since been found in Calisaya bark. It is a white substance, insoluble in water but soluble in alcohol and ether. Two modifications exist, *α*-quinovin and *β*-quinovin, the former in cinchona and the latter in Cuprea bark and in *Remijia* species. *α*-quinovin accompanies the cinchona alkaloids and is obtained from the new bark, which after extraction with water is boiled with milk of lime. The glucoside is precipitated on the addition of hydrochloric acid and when pure forms a colourless crystalline powder, $[\alpha]+59.1°$. *β*-quinovin crystallises in plates, m.p. 235° $[\alpha]+27.9°$.

Quire.—(1) Originally a set of four sheets doubled so as to form eight leaves; hence, any series of leaves, one within the other, in a book or manuscript. (2) Twenty-four sheets of various types of paper.

Quisqualis Indica, Linn. (N.O. *Combretaceæ*). This plant was included as a non-official drug in the Pharmacopœia of India, 1868. It is a climbing shrub, occurring in Burma, Malaya, and cultivated in Indian gardens under the name of the "Rangoon creeper." The fruits are sharply pentagonal, about an inch long, and oval or oblong, but pointed at both ends. The pericarp is woody but fragile, and of a deep mahogany colour, and encloses an oily seed. In 1833 the seeds were brought into notice by Dr. Oxley and Mr. Gordon, of Singapore ("Calcutta Med. Phys. Trans.," Vol. VII, p. 488), on account of their reputation in the Moluccas as an anthelmintic. Four or five of the seeds bruised and given in an electuary form with honey or jam, suffice for the expulsion of entozoa in children. In Mauritius it is called *Liane vermifuge.* Bouton, "Med. Pl. of Mauritius," p. 501, says that the seeds should not be given more than four or five in number, as in some constitutions they are apt to cause spasms and other ill-effects. But in view of the high price of santonin, these seeds seem worthy of investigation as to their active principle, as the efficacy of the seeds in the expulsion of lumbric and other intestinal worms seems to be well established.

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It is therefore in the interests of all Chemists and Druggists to hold good supplies of

BEECHAM'S PILLS
DR. CASSELL'S TABLETS
GERMOLENE
VENO'S LIGHTNING COUGH CURE
BEECHAM'S POWDERS

For latest Price List and particulars send a post-card to
BEECHAMS PILLS, LTD., Chester Road, MANCHESTER

Dr. BENGUE'S BALSAM

RHEUMATISM, NEURALGIA, GOUT.

Dr. BENGUÉ'S ETHYL CHLORIDE.
Dr. BENGUÉ'S DRAGÉES.—EUPURGO.
PULMO (Bailly).—FORXOL.—OPOBYL.
ANESTILE.—NARCOTILE.—HEMOSTYL.
LIPIODOL.—MUTHANOL.—ARHEMAPECTYL.
ENTERO ANTIGENS.—STAPHYLOTHANOL.
NEOPANCARPINE. RICARD'S CACHETS.

BENGUÉ & CO., LTD., MFG. CHEMISTS,
24 FITZROY STREET, LONDON, W.1.

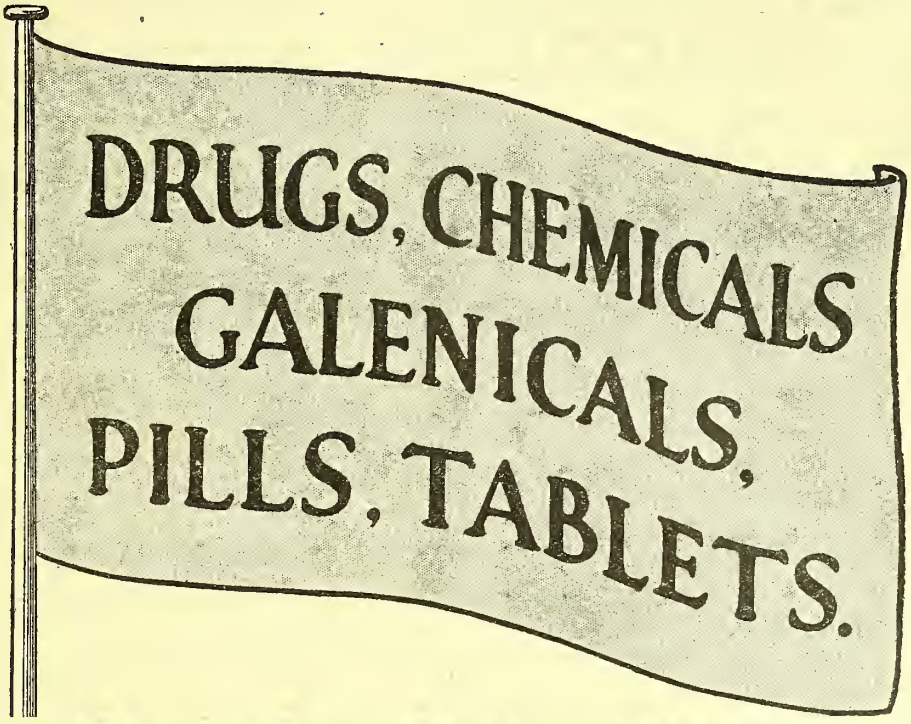
If you would protect your customer from
INFLUENZA
persuade him to use a
DeVILBISS SPRAY
BOTH NIGHT AND MORNING.

You can supply him with one complete with solution for 4/6

Ask us about this—
THE DeVILBISS CO., LTD.,
WEST DRAYTON : : MIDDLESEX
And 27 Old Bond Street, W.



(TRADE MARK)



Our Standard is High.
Our Prices are Right.
May we quote you?

All materials employed are the finest procurable, whilst scientific methods of preparation and standardisation ensure that the finished products conform to, and wherever possible exceed, B.P. or other recognised standards. Special formulæ prepared with scrupulous accuracy.

Write for Trade Lists.



Hirst, Brooke & Hirst, Ltd.
Millgarth Mills, Leeds.

ESTABLISHED 1843

BIG ADVERTISING! BIGGER SALES!! BIGGEST PROFITS!!!

IRVING'S Yeast-Vite TONIC TABLETS

OUR NATION-WIDE ADVERTISING is creating an unprecedented demand, and Chemists throughout the United Kingdom are reporting as under:—

"Selling like hot cakes."
"Nearly sold out—send enclosed order at once."
"Wonderful Sales."
"Your Advertising is selling the goods as never before."
"Sales greater than ever."

LOOK *at the profit on a Special 14 day Window Show Parcel. Sent Carriage Paid together with BONUS and FREE Display Material.*

	COST.	SELLS.
6 doz. 1/3 size @ 12/-	£3 12 0 ..	£4 10 0
1 ,, 3/- ,, @ 28/10	1 8 10 ..	1 16 0
.. ..	£5 0 10 ..	£6 6 0
BONUS 12 only 1/3	free ..	15 0
2 ,, 3/-	free ..	6 0
30 days NETT	£5 0 10 ..	£7 7 0

£5 PARCEL (P.A.T.A.)
46% PROFIT ON COST
30 days CREDIT
PROFIT £2 6 2.

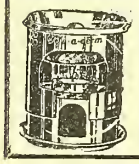
LATEST SHOW MATERIAL to link up with our huge Advertising sent FREE and POST FREE. State whether required for Small, Medium or Large Display.

IMPORTANT.—Our new Factory is in full swing, but we are taxed to the utmost in meeting all demands. Order NOW to avoid losing sales.

IRVING'S YEAST-VITE, LTD., WATFORD, HERTS.
Telephone:—WATFORD 1475 & 806 (5 lines). Telegrams: YEAST-VITE, WATFORD, HERTS.

ESTABLISHED 1772
HENRY'S CALCINED MAGNESIA
Continues to be prepared with scrupulous care in the greatest chemical purity by
Messrs. THOMAS & WILLIAM HENRY, 11, East Street, St. Peters, Manchester.
And is sold in Bottles authenticated by a stamp bearing their name Trade Mark, "Henry's Calcined Magnesia."
New York: Messrs. SCHIEFFELIN & Co., William Street. PRICE 2s. 9d. Paris: Messrs. ROBERTS & Co., 5, Rue de la Paix.

INCREASE YOUR BUSINESS by stocking the
FITE-A-GERM VAPORISER



Sole Agency offered to one progressive chemist in each district for **"FITE-A-GERM" Home-Vaporiser** (advertised at 2/6). In all aluminium.
8 Vapour prescriptions free with each (which you make up).
Sample for 1/3 p.o., and full particulars from manufacturers:—
Victor H. Iddon Ltd., 27 Blackfriars St., Manchester.

ALL CHEMISTS SHOULD STOCK ABDINE
THE GOLD MEDAL HEALTH DRINK.
Quick Seller. Big Profits. Over 50 years' Reputation.
"Abdine" is the most popular Health Drink. Perfectly safe for all ages. Made from choicest fruits, it does not contain Epsom or Glauber Salts. Year after year the sales are steadily increasing.
DUNCAN McGLASHAN, LTD., ABDINE WORKS, WESTFIELD RD., EDINBURGH



'Petrolagar'
(Regd. Trade Mark)

The new style bottle for 'Petrolagar' Brand Emulsion contains precisely the same quantity as the former and affords more convenience to your customers. Order stocks from your wholesaler to-day to meet increased demand.

DESHELL LABORATORIES LTD., BRAYDON ROAD, LONDON, N.16
'Phone: CLISSOLD 7572.

What is ★MONSOL★ ?

MONSOL is a highly refined and efficient antiseptic prepared from Mond Oils.

MONSOL is a practical application of four essential principles, never before combined:—

(*a*) *Germicidal Power* (*b*) *Complete Penetration*
(*c*) *Harmless to Tissue* (*d*) *Healing Action*

Thus—**MONSOL** attacks all germs, whether surface or deep seated, without irritation or injury.

MONSOL products all combine these unique properties as no other preparations can do.

MONSOL BRAND

GERMICIDE AND DISINFECTANT

MONSOL	MONSOL OINTMENT	MONSOL CAPSULES
LIQUID for dressings, douches, packs, and all sick-room purposes	MONSOL THROAT PASTILLES MONSOL DENTAL CREAM	Keratin-coated for intestinal disinfection

Manufacturers: The Mond Staffordshire Refining Co., Ltd., 47 Victoria Street London, S.W.1

Important Notice to the Trade

Ovacoids-Testacoids



Regular medical propaganda is now being conducted throughout the whole of the United Kingdom and Irish Free State for the REED & CARNRICK'S Products, and we solicit the co-operation of the Pharmacists in the execution of prescriptions they will be receiving for these old-established Endocrine Specialities. Price List and Literature on application to Sole Distributing Agents.

Order through your Wholesaler. Liberal Discounts.

"OVACOIDS"
TABLETS
Trade Mark Brand, Ovarian Hormone.

"TESTACOIDS"
TABLETS
Trade Mark Brand, Testicular Hormone.

"PEPTENZYME"
ELIXIR, TABLETS AND POWDER
Trade Mark Brand, Digestant.

"PROTONUCLEIN"
TABLETS, POWDER AND OINTMENT
Trade Mark Brand, Mixed Glands.

"NEPHRITIN"
TABLETS
Trade Mark Brand, Re-Zyme Diuretic.

"PANCROBILIN"
LIQUID AND PILLS
Trade Mark Brand, Intestinal Digestive.

AMPACOIDS — TROPHONINE — ANALEPTINE — ZYMOCIDE

Founded 1860.

REED & CARNRICK

JERSEY CITY, N.J.

"Pioneers in Endocrine Therapy."

Sole Distributing Agents for U.K. and Irish Free State—

COATES AND COOPER
41 Great Tower Street, London, E.C.3.

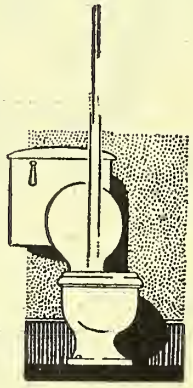
Speddo



a useful product that will bring you profitable business

Speddo—a product of the United Alkali Co. Ltd.—appeals to the housewife as a cleansing product which, although cheap, is efficient and makes a formerly disagreeable task easy to perform.

Speddo appeals to the retailer as an efficient product that sells well and gives him a good profit.



WRITE for samples, prices and full information to:—

IMPERIAL CHEMICAL INDUSTRIES LIMITED,
LONDON, S.W.1.

Sales Offices at:
Belfast, Birmingham, Bradford, Bristol, Dublin, Gateshead-on-Tyne, Leeds, Leicester, Liverpool, London, Manchester.

Agents for Scotland:
Arthur & Hinshaw, Ltd. 6 Blythswood Square, Glasgow.

TRY AN 'ASPRO' WINDOW DISPLAY AND BUY ON BONUS TERMS

We are frequently pointing out the wonderful pulling power of the 'ASPRO' Window Display on account of its linking up with continuous and ever-increasing publicity. A test made of a display will interest all chemists who wish to increase their business.

'ASPRO' has a Tremendous Power to Build Up a Chemist's Business

A test will demonstrate what a great power 'ASPRO' Publicity is to help the Chemist. It is not only on account of the actual 'ASPRO' that it usually sells, but also on its great value in bringing customers into the Chemist's shop who would not otherwise have come in. Every time you put an 'ASPRO' window display in you connect up with a £250,000 continuous advertising activity just the same as if you put your own name at the foot of the advertisements. Why not write us for a window display to-day, also take advantage of the liberal bonus terms shown below whereby you can make an extra 17% profit?



SEND FOR ONE OF THESE DISPLAYS



Buy 'ASPRO' on Bonus Terms and Get 17% EXTRA PROFIT

Just have a look through your purchases of 'ASPRO' and you will find that you are in a position to buy on Bonus terms. Buying on Bonus terms means extra profit averaging 17% to you. So why not place your next order through your Wholesaler on Bonus terms?

'ASPRO' REG. TRADE MARK — WHAT THE BONUS IS

BONUS on 10's
- One Gross Order - Bonus 1 doz. pckts.
- Half Gross Order - Bonus ½ doz. pckts.

Half Gross 10's is minimum order accepted for Bonus purposes.

BONUS on 25's
- One Gross Order - Bonus 2 doz. pckts.
- Half Gross Order - Bonus 1 doz. pckts.
- Quarter Gross Order - Bonus ½ doz. pckts.

Quarter Gross is minimum quantity.

NO BONUS ON 60's.

CONDITIONS

The only conditions made are that the Chemist who buys on these terms undertakes to show Advertising matter in his shop window for 14 days and sell at advertised prices. As 'ASPRO' is so extensively advertised, this action will not only bring customers into the Chemist's shop to purchase 'ASPRO' but should enable the Chemist's staff to make other sales to the customers. Acceptance of Bonus is considered acceptance of conditions regarding display and selling prices. For Bonuses it is not necessary to buy both sizes at the same time, i.e., single lots 6 dozen 10's or 3 dozen 25's will qualify the Chemist.

HOW TO ORDER BONUS PARCELS

We do not sell direct to the Chemist. All our business goes through Wholesalers. Orders may be sent either to your Wholesaler or direct to us. If to us, state the name of your Wholesaler so that we may forward the order on, and the Bonus will be supplied direct by us.

ORDINARY PRICES for 'ASPRO' are as follows:
- *6d. size containing 10 tablets - 4/6 dozen*
- *1/3 size containing 25 tablets - 11/6 dozen*
- *2/6 size containing 60 tablets - 21/- dozen*

NOTE.—2/6 size contains 10 extra tablets.

'ASPRO' consists of the purest Acetyl Salicylic Acid that has ever been known to Medical Science, and its claims are based on its superiority.

Agents: **GOLLIN & Co. Pty. Ltd. ('Aspro' Dept.), Slough, Bucks.**

No proprietary right is claimed in the method of manufacture or the formula. *'Phone: SLOUGH 608*



THE public is becoming more and more insistent in its demand for Marmite. Are you getting *your* share of the extra trade in this great Yeast Food?

Medical men recommend Marmite as one of the richest known sources of Vitamin B. And the uses of Marmite in cooking are winning for it thousands and thousands of fresh customers all over the country.

Be sure to stock and show Marmite.

RETAIL PRICES

1 oz. Jars,	per doz. 6/-	8 oz. Jars,	½ doz. 15/-
2 oz. ,,	,, 10/-	8 oz. ,,	per doz. 30/-
4 oz. ,,	,, 18/-	16 oz. ,,	½ doz. 27/-
	16 oz. Jars per doz. 54/-		

MARMITE

THE GREAT YEAST FOOD

MARMITE FOOD EXTRACT CO., LTD.,
Mincing Lane House, 59, Eastcheap, London, E.C.3.

More and more everyday!

Snowfire Cream is fast becoming the popular favourite. Chemists all over the country are sending in more and more orders every day. Women in their thousands are finding in this fragrant non-greasy cream a real skin beautifier. Recommend Snowfire and secure quick sales and a rapid turnover.

Snowfire CREAM



In handsome Opal jars and neat Aluminium Containers retailing at 1/3 and 3d. respectively.

F. W. Hampshire & Co. (1927) Ltd.
Sunnydale Works, DERBY.

Agents—India:
Messrs. Siqueira & Son,
121 Fort St., Fort, Bombay.
Australia:
Messrs. Salmon & Spraggon,
(Australia) Ltd.
218 Kent St., Sydney, N.S.W

"YEAST FOR VITAMIN B."

Yeast specially prepared for medicinal purposes.

GUARANTEED ABSOLUTELY PURE.

MIDGLEY & PARKINSON, LTD.,
WARREN WORKS, PUDSEY, LEEDS.

PHOSPHATE OF SODA, Pure

For Food Purposes

ASK FOR SAMPLE AND PRICES.

PERRY & HOPE, LTD.

Forth and Clyde Chemical Works, NITSHILL.

Telephones: Giffnock 414 (2 lines). Telegrams: "Perryope, Nitshill."

It will pay you to stock them!

When the public demand goods bearing a specified name the wide-awake retailer prepares to meet that demand and so reap the benefits which follow.

IGLODINE has become a household word, and the public, through satisfaction which comes after trial, are demanding **IGLODINE PREPARATIONS.** Are you the retailer who is preparing to meet the demand?

·Iglodine·

The Safe and Pure Antiseptic

Write to-day for full particulars to:

THE IGLODINE CO., LTD. - Newcastle-on-Tyne.

Pyorrhosol

(*pronounced* PYE-RO-SOL)

cures

Pyorrhœa

THE importance of a remedy for Pyorrhœa need not be stressed, and the claims of PYORRHOSOL—that PYORRHOSOL *does* infallibly cure Pyorrhœa—are now endorsed by innumerable doctors and dentists. Since 1921 it has been in their hands, and sales have been steadily increasing, through this professional channel alone, for the last seven years.



The following testimonial (but one of many hundreds) indicates the esteem in which PYORRHOSOL is held:—

Harley Street, W.

"I see on an average six to eight cases of Pyorrhœa daily, and with all my cases I have achieved splendid results (by using Pyorrhosol). I had Pyorrhœa myself for twenty-five years, and it is due to your preparation that I speak in the past tense."

L.D.S., R.C.S., Eng.



PYORRHOSOL IS NOW BEING PLACED ON THE MARKET, SUPPORTED BY STEADY ADVERTISING. Pyorrhœa is so prevalent, and the lay public is so quickly becoming alive to its dangers, that Pyorrhosol—having such powerful medical testimony behind it—is sure of a ready market. On the advice, or with the approval, of their dentists, many people will be demanding Pyorrhosol this Spring.

Test PYORRHOSOL yourself. Or send for convincing literature, with full details as to trade discounts and sales aids.

PYORRHOSOL LTD., 3 LANCASTER PLACE, STRAND, LONDON, W.C.2

ATT.1

25 for 10½d.
50 for 1/6
P.A.T.A.

LYCO-

Pure Culture Yeast Tablets

Literature and Samples supplied on request by:
STANDARD YEAST CO., LTD.
LONDON
CHISWICK,
W.4

Guarantee
Our Lyco Yeast Tablets are expressly guaranteed to contain pure Culture Yeast only and no addition of drugs or any other ingredients is made in the preparation of Lyco Yeast Tablets.

S Y

Build up your Strength

Terms and full particulars on application to the Sole Manufacturers:

THE STANDARD YEAST CO., LTD.

Lamb Distillery - - - CHISWICK, LONDON, W.4

Telephone: CHISWICK 3370-71.



A VALUABLE TONIC FOOD FOR NERVES & BRAIN

AN ORGANIC FOOD preparation, containing the *Lipoids* of the substance of the central nervous system and the *Vitamins*, A, B, D and E, combined with Lime, Iron, soluble Lacto-Albumines, Hæmoglobin and Carbo-Hydrates.

A perfectly pure natural Tonic food prepared scientifically under the supervision of experts. An unequalled Reconstituent for both Children and Adults in all cases of weakness or the after-effects of illness.

Obtainable from the Principal Wholesale Chemists and Sundries Houses.
PRICES (P.A.T.A.) for Great Britain and Ireland: POWDER, Boxes of ½ lb. net, 3/- Boxes of ¼ lb. net, 5/6. TABLETS, Boxes of 54, 3/6.
Special Packing for Export. Prices on application.

In TABLET form "NEW-PROMONTA" is packed in flat boxes each containing 54 tablets. An aluminium tube, which holds a day's supply and can be carried easily in the pocket, is included in every box—a feature of great convenience to travellers and those professionally engaged.

In POWDER form "NEW-PROMONTA" is packed in handy sealed boxes of two sizes containing ¼ lb. and ½ lb. respectively.

"NEW-PROMONTA" is prescribed and recommended by the Medical Profession.
"NEW-PROMONTA" is used in Hospitals and University Clinics.
"NEW-PROMONTA" gives tone and power to the Nervous System and the Brain.
"NEW-PROMONTA" increases the Appetite and aids Digestion.
"NEW-PROMONTA" enriches the Blood.
"NEW-PROMONTA" gives an increased vitality.
"NEW-PROMONTA" is extremely palatable to persons of all ages.

"NEW-PROMONTA"

A SCIENTIFIC FOOD FOR THE NERVOUS SYSTEM

PROMONTA COMPANY, LIMITED, Westmorland House, 127/131 Regent St., London, W.1
Telephone: Regent 7950. *Telegrams: Nupromonta, Piccy, London*

This entirely new line

has heavy advertising and fine profits behind it!



FROM NOW ON—week by week, striking advertisements are appearing for this remarkable new product in leading daily, women's and medical journals. Any customer you introduce to Novopine Sparkling Pine Bath Tablets will be grateful to you for having drawn attention to them.

They are sold in delightful gold coloured boxes, which are a positive adornment to any counter, and so soon as you decide to display them you will find them selling fast! We recommend all chemists who enjoy trade in good class districts to order a stock of this line.

If you have any difficulty, write direct to Natural Products, Ltd., 40 Furnival Street, E.C.4. We will see you are supplied at once.

2/- per carton containing 6 Tablets

6/- per box containing 3 Cartons

Novopine

Sparkling Pine Bath Tablets

Your wholesaler stocks it!

MATTE Real
(South American Tea)

The sale of Matte Real is an extra sale, not a substitute sale, therefore the profit is an actual one.
Chemists will find that a small display of packets on the counter leads to satisfactory results to their customers and to themselves.

Extra Sales — No Trouble — 33⅓ % Profit

The interest in Dietetics makes it easy to introduce to your customers this
INVIGORATING, DIURETIC, & PALATABLE BEVERAGE,
for use in all cases of Gout, Rheumatism, Arthritis, Neuritis, Dyspepsia, Diabetes.
We should be pleased to send you a sample packet for trial.

TERMS:—
Cases containing the following sizes:
24 x 1/6
12 x 2/9
6 x 5/-
Carriage Paid. 1 Month. less 33⅓%

Show Cards, Window Bills, Circulars and Handbills are sent with each order.

Original Cases containing:
400 packets 1/6 size
or 200 „ 2/9 „
or 100 „ 5/0 „
Carriage Paid. 1 Month, less 43⅓%

Peek, Bros. & Winch, Ltd., 20 Eastcheap, London, E.C.3

PURE ORANGE WINE
A. MILLAR & CO., LTD., DUBLIN
(VINUM AURANTII B.P.) Prepared in strict accordance with the Formula of the British Pharmacopœia. (Wholesale only.)
Samples from Head Office, Thomas Street, DUBLIN, or London Office, 74 Great Tower Street, LONDON, E.C.3.

ACCURATE POISON BOTTLES Brilliant Amber Glass, English Machine Made, Hexagonal.
GUARANTEED FULL CAPACITY.
These bottles are much stronger than hand-made and reduce breakages to a minimum.
2 oz. 14/6, 3 oz. 16/6, 4 oz. 18/6, 6 oz. 22/-, 8 oz. 23/- gross.
C. W. HARPER, 254 STOCKPORT ROAD, MANCHESTER

TRADE B&B MARK Established 1833

BAISS BROTHERS & CO., LTD.
Wholesale and Export Druggists, Manufacturing Chemists and Druggists' Sundriesmen.
EFFERVESCENT APERIENTS.
Provide NOW for your requirements during the approaching season. Our
CARLSBAD, GLAUBER, HEALTH SALT AND FRUIT SALINE
are amongst our leading lines. They are all attractively labelled and packed. Let us quote you and submit samples.
DELIVERIES BY OWN MOTOR SERVICE IN THE HOME COUNTIES, INCLUDING COAST TOWNS.
Telegrams: "Ipecac, London." GRANGE WORKS, LONDON, S.E.1 Telephone: Hop 4362 (3 lines).

FABRITIUS, OSLO.



Norwegian Cod Liver Oil for all Children.

The pale, thin and weedy children of whom one sees far too many in the large towns, frequently fall an easy prey to infectious diseases such as bronchitis, broncho-pneumonia, diarrhoea, etc.

In such cases Cod Liver Oil frequently has an excellent effect, not because of any direct antiseptic influence, but because it increases the powers of the body to resist and fight disease.

At many Welfare Centres, Schools and other Clinics, all babies are given systematically a teaspoonful of Cod Liver Oil a day.

If you are interested, please send a post-card to the address below for a copy of a pamphlet «On the Effects and Medicinal Use of Cod Liver Oil». It will be sent gratis and post free.

National Committee for Promoting the Consumption of Norwegian Cod Liver Oil, Post-Box 226, Bergen, Norway.

PURE MALT EXTRACT

with ***FINEST***

NORWEGIAN COD LIVER OIL

The Brand that does not separate nor crystallize.

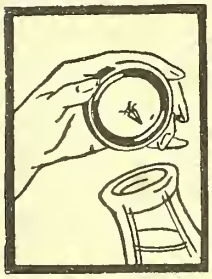
Your own name and address on labels. In English jars, etc. Direct from the actual manufacturers.

THE BRITISH DIAMALT COMPANY

SAWBRIDGEWORTH - - HERTS.

"PRESTOP"

Milk COVER & Cardboard disc REMOVER



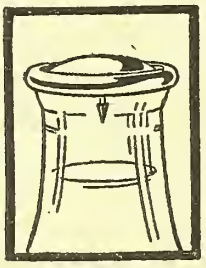
6d.

FITS ALL SIZES.

Manufacturers:

T. WEBSTER & CO., LTD.

Diamine House, Middle Lane, Hornsey, London, N.8



CAMWAL

TABLE WATERS - - in Syphons & Bottles

LEMONADE POWDER } in Packets, Cartons, and Canisters.

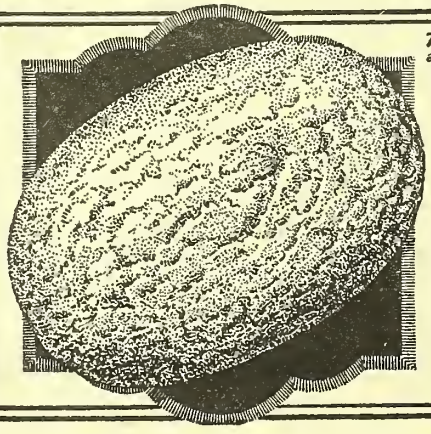
AQUAPERIA WATER or SALTS (P.A.T.A.) } *WINDOW DISPLAYS.*

LEMON SQUASH - - in 26 oz. Bottles. (with plain or Soda water forms a delicious drink).

HOME and EXPORT PRICES and TERMS on application.

CAMWAL, Ltd. LONDON, MANCHESTER, BRISTOL BIRMINGHAM, HARROGATE.

City Office: 52 Queen Victoria Street, LONDON, E.C.4.
'Phone: City 4497.



Two thirds actual size

Bath Rusks

Unsolicited testimonials daily for Carr's famous Bath Rusks which are ideal for babies and young children. Scores of letters from grateful mothers. Recommended everywhere.

Made only by

CARR'S *of* Carlisle

The Oldest House in the Trade

Sidac

SILVERINE

Insoluble

Transparent Paper

WHITE, COLOURED, EMBOSSED, PRINTED.

for protective wrapping of all goods.

The Ideal Wrapping for

Soaps, Perfumery,

& Toilet Goods.

EITHER COLOURLESS or COLOURED TO HARMONISE

BAGS OF ALL SIZES AND SHAPES MADE TO ORDER

Samples & Competitive Prices from Sole Agents:

W. S. MUIR & Co. Ltd.

83, Upper Thames St.,

LONDON, E.C. 4.

Phones: City, 6164, 6165, 0667

Petroleum Jelly

White, Yellow, Amber, & Ruby Red, for all Pharmaceutical and Veterinary purposes

MEADE-KING, ROBINSON & CO., LTD.

22 Water Street LIVERPOOL. | 523 Salisbury Hse Finsbury Circus LONDON. | Deansgate Arcade MANCHESTER. | Martineau Street BIRMINGHAM. | Wellington Chambers LEEDS.

ADEPS LANÆ, P.B.

THE FINEST BRITISH LANOLINE PRODUCED
IS MANUFACTURED BY

THE PHARMACEUTICAL LANOLINE CO.

Carnwath Road, Fulham, London, S.W.6

Telephone: Putney 1153 and 1154. WHO INVITE ENQUIRIES. Telegrams: "Batapo, Walgreen, London."

BEE-HIVE TRADE MARK

REGISTERED FOR OUR WELL-KNOWN BRANDS OF CERESINE WAXES.

CERESINE WAX

WHITE BLEACHED CARNAUBA WAX VARIOUS GRADES AND RESIDUE
BEESWAX WHITE, YELLOW AND COMPOSITION PARAFFIN WAX ALL MELTING POINTS
OZOKERITE WAX ALL GRADES

POTH, HILLE & CO., LTD.,

6 Lloyd's Avenue, London, E.C.3. *Works at Stratford, E.*

PETROLEUM JELLIES

WHITE, LEMON, YELLOW, AMBER,
RED, GREEN.

WHITE & COLOURED OILS

YELLOW, GREEN, RED FOR BRILLIANTINE, etc.

LIQUID PARAFFIN

COLOURLESS, TASTELESS, ODOURLESS.
ALL SPECIFIC GRAVITIES.

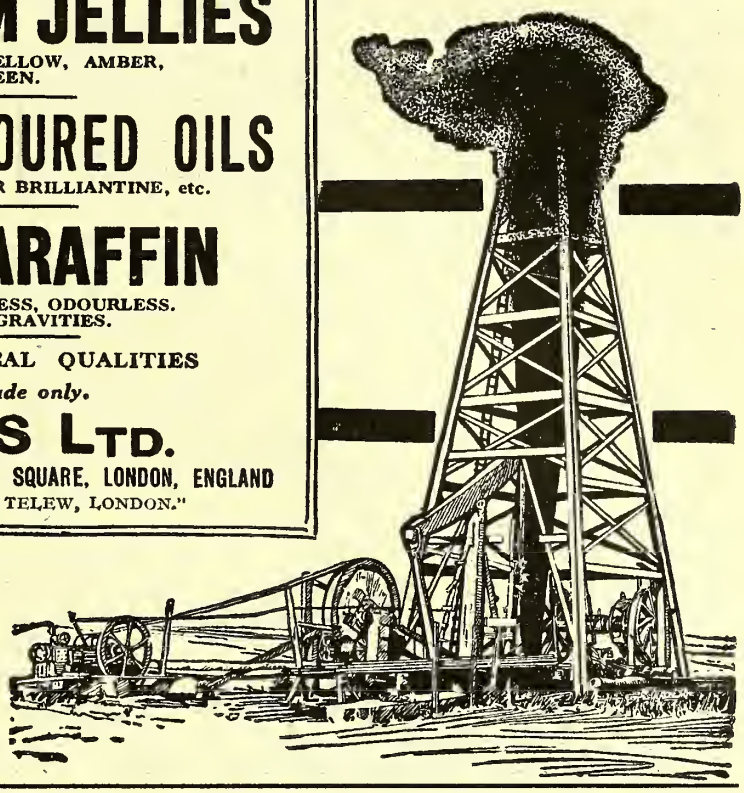
B.P. AND TECHNICAL QUALITIES

Wholesale Trade only.

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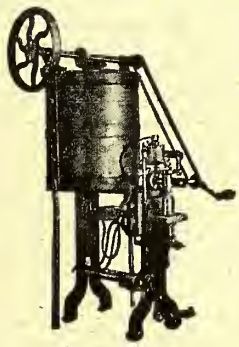
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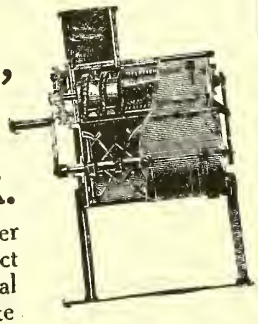
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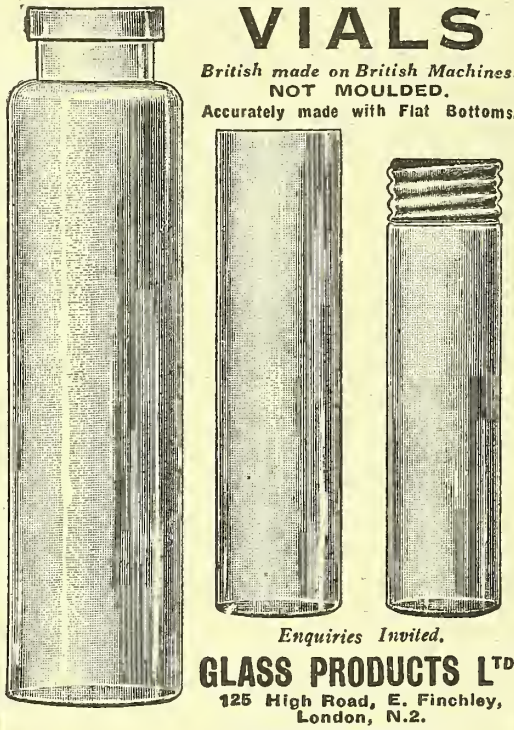
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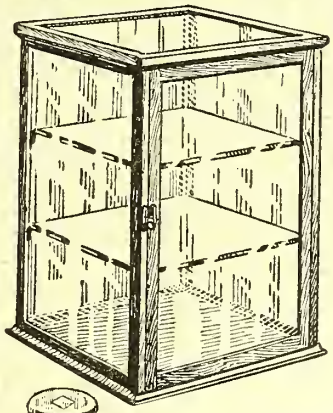
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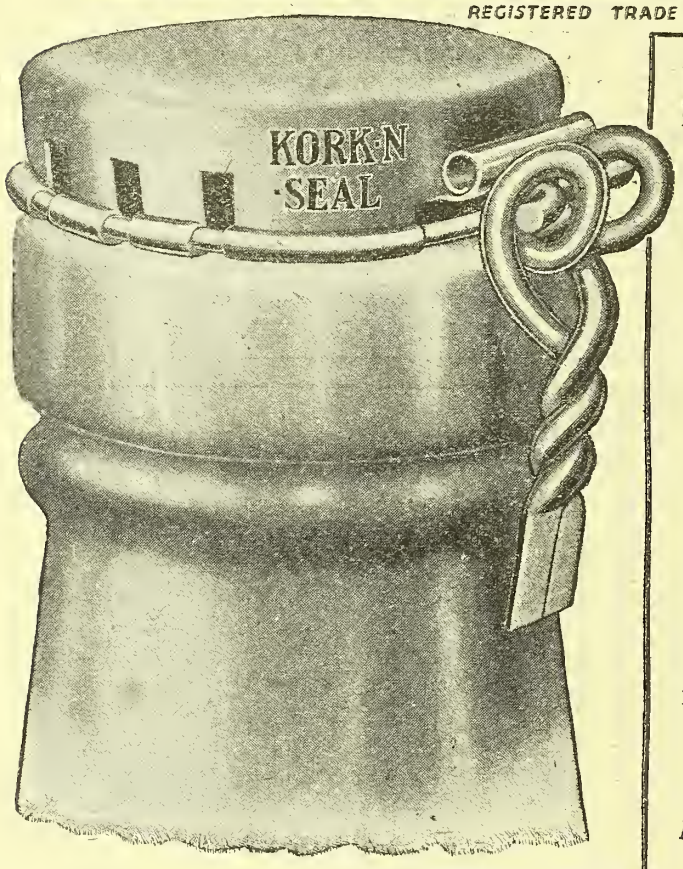
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42 CANNON ST. LONDON E.C.4

APRIL 6, 1929.

This Supplement is inserted in every copy of The Chemist & Druggist.

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2.—DURHAM CO.—Chemist Business for immediate disposal; lease can be arranged at £30 p.a. rent; takings £17; Kodak and Ucal Agencies; good living accommodation. (174)

3.—ESSEX.—Two Chemists' Shops for immediate disposal; premises held on lease at rental of £62 and £52 respectively; returns average £1,189 and £792 per annum; price asked £1,000 all at. Full particulars on application. (187)

4.—HULL.—Dispensing and Family Chemist Business in busy thoroughfare (which will shortly become a main road owing to alterations); rent £26 on a yearly tenancy, which can be secured; returns £900 p.a.; lock-up shop; good prospects for a young qualified man. Further particulars on application. (170)

5.—LONDON, E.—Old-established Retail and Dispensing Business; returns £3,600 p.a.; good living accommodation; freehold for sale, or would consider granting a lease; strongly recommended. Further particulars on application. (188)

6.—LONDON, N.—Old-established Retail Dispensing Cash Pharmacy; well-fitted shop and good stock carried; returns average £24 per week, but can be increased with capital; premises include good living accommodation, and freehold can be purchased, or lease obtained; fullest particulars on application; no reasonable offer refused. (182)

7.—LONDON, N.—Established Chemist's Business; premises, which include convenient living accommodation, held on lease, 15 years to run; rental £50 p.a.; stock approx. £285; price asked £550, all at. Further particulars on application. (180)

8.—LONDON, N.W.—Retail Dispensing Business on 13 years' lease at £52 per annum inclusive; returns £1,000 p.a.; excellent opportunity for young qualified man. Further particulars on application. (183)

9.—LONDON, S.E.—Old-established Dispensing and Family Business; in good position; returns average £30 per week; well-fitted shop; good scope for young and energetic chemist; price, all at £550. Full particulars on application. (184)

10.—LONDON, S.E.—Well-situated Drug Stores; premises held on lease, with 17 years to run, at rental of £68 per annum; let off £91; returns average £25 to £30 per week; good opening for N.H.I.; growing district; fullest particulars on application. (185)

11.—MANCHESTER (District).—Old-established Dispensing Chemist Business in good-class suburb on a yearly tenancy at £120 p.a.; let off £117; returns average £27 per week, all cash; excellent opportunity, as quick sale is desired; good reasons. (172)

12.—SHEFFIELD (Suburb).—Chemist's Business; recently established; rent 14s. weekly; rates 7s. 6d.; returns approximately £780; could be considerably increased; offers invited. Further particulars on application. (189)

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Busy main road. New Parade of Shops. Rents from £90

Mr. Penney, Colin Park Estate, Edgware Road, Colindale, N.W.9. *Phone: Colindale 6546*

APPRENTICES WANTED.

CITY Pharmacy has vacancy for gentlemanly youth as Apprentice; good training; time for study. "Pharmakon," P.C.B. 19/3 Office of this Paper.

RELIABLE, willing, educated youth required as Apprentice; excellent experience available; time allowed for study. Apply Vines & Froom, 16 Aldersgate Street, E.C.1.

BUSINESSES FOR DISPOSAL.

BIRMINGHAM.—Drug Stores, well situated in thickly populated district, excellent opportunity for qualified man, good prospects for N.H.I., to be Sold, together with the freehold, as going concern; good living accommodation; price £650; stock and fixtures at valuation. Apply T. Barry, 68 Clevedon Road, Balsall Heath, Birmingham.

BRIGHTON (near).—High-class Dispensing Business, with Kodak Agency; splendid position; lock-up shop; valuable lease; main road; N.H.I.; returns over £2,000; price £1,600 or near offer; splendid opportunity. Full particulars on application. Bankers' references. 210/29, Office of this Paper.

EAST COAST (popular watering place).—Old-established Business, central position, for Sale owing to death of proprietor; General Retail and Dispensing; full Wine Licence, Kodak and Rexall Agencies; very attractive pharmacy; newly re-modelled and re-fitted throughout; up-to-date shop front; good house, with private entrance; freehold may be purchased, or good lease will be granted; full particulars on application; no agents. H. Coward, 15 Coxton Road, Lowestoft.

GLASGOW.—For Sale, Chemist's Business in thickly populated working-class district; prominent position; good passing trade, cash and N.H.I.; scope for Photographics and Optics, as yet practically untouched; stock and fittings about £1,000; price £1,500, or best offer. Particulars from 206/7, Office of this Paper.

LONDON, N.W.—High-class Dispensing and Retail Business on main road; handsomely fitted and well-stocked, double-fronted shop; long lease; Kodak Agency; good living accommodation; inspection invited and full particulars to *bona-fide* purchasers; capital required about £2,350; no agents. 207/37, Office of this Paper.

LONDON, W.—Main road, busy thoroughfare; recently-established Business for disposal; well stocked; low rental; at present doing £20 per week, with scope for double; price £425; full particulars on receipt of bankers' reference. Apply 211/17, Office of this Paper.

MANCHESTER DISTRICT. — Old-established Business in working-class district with steady N.H.I. connection; full Wine Licence and Photographic trade; splendid opportunity for energetic, qualified man; good reason for selling; a chance for a cash buyer to obtain sound business at a very reasonable price. 209/37, Office of this Paper.

NORTH LONDON.—Good-class Retail Pharmacy and Optical Business for disposal; well-fitted shop; plenty of scope. Full particulars on application to Messrs. Hillier, Parker, May & Rowden, 27 Maddox Street, W.1.

NOTTS.—Main road, corner position; well-fitted and stocked Chemist's Business; nice house, with bathroom, etc.; gas and electricity throughout; lease nine years; splendid chance for worker; very thickly populated neighbourhood; good opening for Optician; must be sold; accept £400; excellent reasons for sale. Apply 211/15, Office of this Paper.

PEMBROKESHIRE HEALTH RESORT. — Flourishing unopposed mixed country Retail Business, with freehold property; rare opportunity to acquire sound living in delightful surroundings. Full particulars. Bankers' references. 145/155, Office of this Paper.

SOUTH COAST.—For sale, recently-established Business (six months) in improving position on main road; present turnover £15 weekly; value of stock and fittings £500; double-fronted roomy shop and good living accommodation; 14 years' lease; offers invited; owner going abroad. Write 208/9, Office of this Paper.

SOUTH KENSINGTON.—Old-established, profitable Business of highest class; steadily increasing turnover; returns last year approaching £4,000; over £2,000 last six months; Wine licence, Kodak and Arden Agencies; new lease; price £3,150, including excellent stock and fittings; business can be taken over as private limited company if desired; reason for sale, dissolution of partnership. 211/36, Office of this Paper.

SUFFOLK (seaside resort).—Old-established Retail, Cash Business; must be sold; proprietor retiring; good house. Particulars on application. 84 Biddulph Mansions, Elgin Avenue, W.9.

YORKSHIRE (West Riding).—General Retail Business, with good N.H.I. connection; returns average £1,000 per annum for past 3 years; electric light; low rental; valuation, stock and fixtures (approximately £500); auditor's figures open to inspection. 210/14, Office of this Paper.

BUSINESSES for Sale, Durham, Worcestershire, Cornwall, Particulars on application to Ernest J. George, 3 St. Paul's Close, Walsall.

CHEMISTS, densely populated part central Brighton, at present under unqualified manager; established 30 years; fine opening for qualified man; very low rent on lease; heavy stock, valuable fittings, included for £500. Prior, 23 Ship Street, Brighton.

EXCELLENT OPPORTUNITY. — Established Drug, Confectionery, Tobacco and Sundries Business for Sale; turnover about £1,800; together with Villa attached, 6 apartments; electric light and all modern conveniences; all stone built on main thoroughfare; would suit unqualified, or could be greatly increased with qualified; good reason for disposal; bargain to immediate purchaser. Venters, Drug Stores, Dysart, Fifeshire.

FOR Sale, as a going concern, Chemist's and Druggist's Business in a popular inland spa; well established; good Family and Dispensing connection; desirable Freehold Property in splendid position; exceptionally attractive shop with modern dwelling-house adjoining. For particulars apply to 204/33, Office of this Paper.

LIGHT Retail Business for Sale, large town South Wales; good shopping centre; modern windows; nicely fitted; prominent corner; large house; electric light throughout; long lease; clean stock; price £800 and stock at valuation; owner giving up. 209/32, Office of this Paper.

LOCK-UP Shop in small town, 40 miles from London; Kodak Agency and Optics; takings £1,500; long lease; suit elderly chemist; lowest price £500; stock and fixtures about £300. 204/350, Office of this Paper.

MUST BE SOLD (to wind up estate).—Exeter, busy thoroughfare, double-fronted freehold shop and dwelling-house, where Chemist's Business has been carried on for many years; only available through death of proprietor; good opportunity for energetic man; low price; early possession. Cox & Co., Estate Agents, South Street, Exeter.

SMALL Pharmacy in new part of progressive Midland town; nearest opposition ¾ mile; Kodak Agency; 21 years' lease; dwelling-house attached, at present let off, but available in one month; takings under management average £26 weekly (increasing); price £500; stock and fixtures at valuation; total required about £750; banker's or other reference. 204/35, Office of this Paper.

£75, ALL at, Drug Stores in dense working-class locality; splendid chance to do big N.H.I. trade; inclusive rent 22s., agreement; will accept any reasonable offer for quick sale; owner leaving London. Clark, 110 Prince's Road, Holland Park Avenue, London, W.11.

£2,000 TURNOVER first year; rent and rates £105 per annum; good-class district of northern seaport, which is rapidly developing; fixtures £260, approximately; stock £500; price £1,100; owner giving up the profession; bank references, please. 205/3, Office of this Paper.

BUSINESSES WANTED.

CHEMIST wishes to negotiate privately for a Business in London or near; not necessarily large if sound; advertiser is free to take over immediately; please give in confidence turnover and locality; immediate interview arranged, when details can be gone into personally; house not necessary; bankers' references; cash transaction. 210/36, Office of this Paper.

PRIVATE Chemist requires Family Business, with living accommodation, doing £2,000 or over; Northern County preferred, not essential; strictly confidential; capital available. 208/1, Office of this Paper.

PREMISES FOR SALE.

CLACTON-ON-SEA.—Splendid Corner Premises; main position; suitable multiple Chemists and Stores. Cook & Eaves, Tobacconists, Clacton-on-Sea. ('Phone 160.)

EDGWARE.—Shops, each with Flat over, to be Sold; suitable all trades, price £1,750, freehold; would consider letting at £175 per annum exclusive. Write or call upon Baker, Cooke & Standen, Edgware (Tube) Station, Middlesex. ('Phone 0140.)

NEWHAVEN.—Smart double-fronted Shop, house, garden; Chemist really needed; vacant; freehold, £785; part remain. Prior, 23 Ship Street, Brighton.

MAIN road position in rapidly developing neighbourhood, 7 Victoria Parade, Cranbrook Road, Ilford; single-fronted shop with imposing elevation; ample living accommodation and yard at rear with entrance for vehicles; suitable for Chemist; £1,475 freehold (excluding shop front); liberal mortgage with easy terms of repayment arranged on request. Apply Suburban Developments (London), Ltd., Estate Office, Perth Road, Ilford, E.

SHOP, freehold, sitting room, scullery, 3 bedrooms, bathroom; excellent opening for Chemist; well built; £950. F. Hosker, Stanley House, Stanley Road, Carshalton-on-Hill, Station, Carshalton Beeches.

PREMISES TO LET.

BRIXTON ROAD.—Shops, about 17 ft. by 50 ft. each, with upper part of 4 rooms, kitchen and bath; lease 21 years; rent £300 per annum; no premium. Apply Hillier, Parker, May & Rowden, 27 Maddox Street, W.1.

BURNT OAK, in the centre of the L.C.C. Watling Estate.—A half Shop adjoining a Doctor's Surgery; rent £120 per annum exclusive; eminently suitable for a Chemist's shop; population of over 20,000 in the immediate vicinity. Apply Leslie Raymond, F.S.I., 24/25 The Mall, Edgware.

SHOPS with Flat over to Let on lease in excellent position at Bromley; suit Chemist. Apply Baxter, Payne & Lepper, opposite G.P.O., Bromley, Kent.

AGENCIES.

SOUTH AFRICA.—All manner of Agency work undertaken; correspondence invited; Sales Organisers and Manufacturers' Representatives. Reference: The Standard Bank, Ltd., 10 Clement's Lane, London, E.C., England. South African Agency Service, P.O. Box 2593, Cape Town, South Africa.

AGENTS wanted to carry good-class Shaving Brushes to Wholesale Houses only in provinces, Scotland and Ireland. Write 204/30, Office of this Paper.

EXPERIENCED Organiser (M.P.S., F.S.M.C.), 45, owner of two retail shops, has a large well-lit Showroom (700 square feet floor space), Office and Storeroom in West London suburb; having certain spare time he wishes to use premises as London depôt or distributing centre for some preparation or goods; prepared to take over and manage any good Agency. 211/1, Office of this Paper.

QUALIFIED Chemist, about to travel Scotland with own car, seeks additional Agencies; excellent opportunity for firms to be regularly, efficiently, and professionally represented at the minimum of cost; advertiser well introduced to the Scottish Chemists. 207/56, Office of this Paper.

SUB-AGENT (London Export Merchants or Wholesale Druggists) to be appointed for Great Britain and British Dominions for an entirely new article (invention of three eminent physicians) with very promising future; a new and simple method for daily practice of doctors to ascertain diseased condition of blood within 12 hours; already adopted by hospitals for its simplicity and rapidity in ascertaining the results; correspondence invited. E. W. Burmester, Zurich 6, Switzerland.

PREMISES WANTED.

WANTED, Premises, good living accommodation, for Drug Store, healthy district, with scope; Yorkshire districts preferred; state particulars, including rent and rates, which must be reasonable; neglected business considered if cheap and any chance of improvement. Particulars to Mr. A. O. Wilson, 1 Fountain Terrace, Bellingham, Northumberland.

FINANCIAL.

LIVE Firm or Syndicate required to acquire a Medical Specialist's recent invention (costs a few pence) required in all climates and seasons; thoroughly tested; welcomed by all doctors, hospitals and pharmacies; principals only. Russ, 50 George Street, Manchester Square, W.

PRIVATE limited company manufacturing well-known Patented Dental Specialities would consider the appointment of a young experienced Salesman with knowledge of Advertising and Marketing Specialities of this natnre; would have full control of the management and finance of this business; preferably with capital of between two to three thousand pounds. Apply to 202/10, Office of this Paper.

APPOINTMENTS.

UNIVERSITY COLLEGE HOSPITAL, GOWER STREET, LONDON, W.C.1.

APPLICATIONS are invited for the appointment of Pharmacist to the Hospital.

Candidates must be Pharmaceutical Chemists, and should have had business and Analytical experience.

Salary £300 per annum, rising by annual increments of £20 to £600 per annum; lunch and tea provided. The appointment is pensionable under the Federated Superannuation Contributory Scheme.

The post carries with it the appointments of Lecturer in Practical Pharmacy to the Medical School and Lecturer in Materia Medica to the Dental School, for which additional fees are paid.

Applications, accompanied by copies of three recent testimonials, should reach the Secretary of the Hospital by 25th April, 1929.

SALE BY AUCTION.

Removed from Richmond and elsewhere for convenience of Sale.

5 LITTLE BRITAIN (close to G.P.O.), LONDON, E.C.1.

The almost new and well-made CHEMISTS' FITTINGS and SHOWCASES, including Dispensing Counters and Screens, Druggists' Labelled Nests of Drawers, Wall Fittings and Recess Mirrors, Chemists' and Perfumers' Mirror-lined and other Wall Showcases, Counters with slope fronts and mirrored doors at back, all plate-glass Counters and Silent Salesmen, Centre Showcases, Plate-glass Shelves, Cash Desks, Tills, Typewriters, etc.

B. NORMAN & SON

will Sell by Auction at their Sale Rooms, as above,

WEDNESDAY NEXT at One o'clock.

On View Day Prior. Catalogues of the Auctioneers as above. Telephone: Central 6463.

TENDERS INVITED.

CORPORATION OF LONDON.
DISINFECTANTS.

THE Sanitary Committee of the Corporation of London are prepared to receive Tenders for the supply of such Disinfectants and Chemicals as may be required by the Corporation for a period of twelve months from the 1st July, 1929.

A list of such Disinfectants, etc., and Forms of Tender can be obtained at the Office of the Town Clerk, Public Health Department, Guildhall, E.C.2, between the hours of 10 a.m. and 5 p.m. (Saturdays 10 a.m. to 1 p.m.).

Tenders, on the form supplied, must be delivered at the Office of the Hallkeeper, Guildhall, E.C.2, on or before 12 noon on Monday, the 22nd April, 1929, in sealed envelopes, addressed to the Town Clerk, Public Health Department, and endorsed "Tenders for Disinfectants, etc."

The Committee do not pledge themselves to accept the lowest or any Tender.

BELL.

Guildhall, E.C.2.
March, 1929.

SITUATIONS OPEN.

RETAIL.

[HOME.]

BATH.—Junior Assistant; good Dispenser, with Photo and Counter experience. Apply, stating age, height and salary required (outdoor) and when at liberty, 209/31, Office of this Paper.

BRISTOL.—Wanted at once smart Manager with up-to-date business ideas for growing branch; salary and liberal commission on returns; extraordinary prospects; those seeking permanency only need apply, with full particulars and recent photo. 145/154, Office of this Paper.

CHANNEL ISLANDS.—Mr. F. G. de Faye, Pharmacist, Jersey, requires a well-educated, capable Assistant (male) in high-class Dispensing business; good address and appearance important; duties, front counter principally. State age, height, experience, salary required, and enclose photo, which will be returned. 1½d. postage.

EASTBOURNE.—Manager, qualified (age 25-35), also a Junior (20-25); smart, well-spoken, experienced, all-round in high-class, modern Pharmacy; Optical qualification and experience an advantage but not essential. Apply, stating age, height, experience, salary required, enclose photo, Cofman's Pharmacy, 129 Baker Street, W.1.

EAST KENT.—Qualified Assistant, able to manage small branch, required in two or three weeks or earlier; good Counterman and Prescriber. Please state full particulars and send photo. 211/25, Office of this Paper.

HAMPSTEAD.—Young qualified Assistant, not over 30, required for high-class Dispensing and Retail business; living accommodation provided. Give full particulars and salary. 210/25, Office of this Paper.

LIVERPOOL.—Qualified for working-class district; knowledge of Photography; state salary. Honwoods, Ltd., 345 Scotland Road, Liverpool.

LONDON, N.W.—Junior Assistant required immediately; must be used to busy Counter Trade; N.H.I. Dispensing. Apply, giving full particulars of previous experience, age, height and salary required, to P. S. Knight, 85 High Street, Harlesden, N.W.10.

LONDON, W.—Qualified Assistant (male) for good-class business; age 26-35; must be of good appearance and height, tactful Salesman, with West-End experience preferred; position vacant about May 1. Give references, experience, age, height, salary required to BM/VCLL, London, W.C.1.

LONDON.—Unqualified smart Assistant wanted, with good all-round experience. Apply, giving details of experience, age, height and salary required (photo if posisble), to D. H. Owles, 173 Ladbroke Grove, London, W.10.

LONDON, N.—Qualified gent. required immediately to look after branch; must be good Dispenser and quick at Counter, also good knowledge of Photography and Window-dressing. Apply, with full particulars of experience and salary required, Wilkie, 28 Hildreth Street, Balham.

LONDON, S.E.—Unqualified (male) Assistant for April 22; must be quick and accurate Dispenser and good Counterhand. State full particulars. Hodges, 131 Rushey Green, Catford, S.E.6.

LONDON.—Qualified Locum (male) required from April 15 for a period of five months; capable and energetic. Age, particulars of experience, salary required, Briggs, Chemists, Ltd., 126 Hoe Street, Walthamstow.

LONDON, W.—A reliable qualified Assistant required in high-class Dispensing establishment; previous experience in similar business essential. Apply, giving particulars, to "W. S. R.," 1 Southwick Street, Hyde Park, London, W.2.

LONDON, W.1.—Wanted, at once, qualified Assistant (male), recently qualified; applicants with good Dispensing experience would be considered. Please give full particulars of experience, etc., salary required, and when disengaged to 210/4, Office of this Paper.

LONDON (near Angel).—Junior Assistant, lady or gent., required immediately; whole or part time; Counter and N.H.I. Dispensing. Fullest particulars, including age, salary required, etc. 210/1, Office of this Paper.

LONDON, S.E.—Assistant, unqualified, for permanency, accustomed to quick cash trade; capable Dispenser and Counterman, with some knowledge of Photography. Give particulars of experience, last reference, age and salary required to 210/38, Office of this Paper.

LONDON.—Qualified Assistant required, capable, experienced all departments. Write, sending full particulars, references, age, salary, when disengaged, to 210/40, Office of this Paper.

LONDON, N.1.—Qualified Manager required for working-class Retail and N.H.I. business; salary £4 10s. and commission. Apply, stating experience, age, references, to 210/350, Office of this Paper.

LONDON, E.—Elderly qualified Assistant required for N.H.I. Dispensing; very easy hours. Apply, stating salary required, to 210/35, Office of this Paper.

LONDON, W.—Gentlemanly, capable Assistant required for first-class business. Full particulars of experience and salary to 210/27, Office of this Paper.

LONDON, W.—Wanted, shortly, a well-educated young man as Junior Assistant in high-class Dispensing business. 210/22, Office of this Paper.

LONDON, S.W.—A vacancy occurs for a young Unqualified Assistant in a high-class Dispensing business; previous experience of this kind essential. State age, salary required and when at liberty. 211/24, Office of this Paper.

LONDON, S.E.—Young Qualified Assistant, lady or gentleman, for light Retail, Dispensing and Photographic; good Window-dresser. Apply, giving full particulars, 212/32, Office of this Paper.

LONDON, N.—Junior Assistant required immediately; must be used to busy Counter trade and N.H.I. Dispensing. State age, salary required, and when at liberty, etc. 211/244, Office of this Paper.

LONDON, W.C.—Smart Qualified Manager required for a good-class business in main street; a keen business man is required who has had previous experience of this sort and a good agreement will be given. Give full particulars, stating age, salary required and when at liberty. 211/240, Office of this Paper.

LONDON, N.W.—Qualified Manager, about 30 years of age, for Family and Dispensing business in good suburb; exceptional opening for thoroughly capable man. Give full details of previous experience, salary required and when disengaged. 211/241, Office of this Paper.

MANCHESTER.—Pharmacist wanted as Assistant; age between 30 and 40 years; £4 10s.; commence at once. 210/11, Office of this Paper.

NEWQUAY, CORNWALL.—Junior Assistant at once for the season. All particulars, with references and salary required (outdoors), to Alfred Bond, Ltd., Dispensing Chemists, The Pharmacy, Bank Street, Newquay.

PLYMOUTH.—Qualified Manager for branch; thoroughly experienced; good Counterman and trustworthy; highest references required; permanency; salary and commission. Full particulars and photograph, B. J. Woodrow, M.P.S., 5 Drake Street, Plymouth.

SOUTH COAST.—Qualified Assistant; must be a good Salesman and Window-dresser, well up in Photography and Toilets; courteous and obliging; permanency. State salary required and full particulars in first letter. 211/30, Office of this Paper.

SUSSEX.—Smart Junior required for seaside resort; must be well up in Toilets, Photography and Window-dressing. Give full particulars of previous experience, and state age, salary required, and when at liberty. 211/242, Office of this Paper.

SUSSEX COAST HEALTH RESORT.—Qualified lady Assistant required; permanency. State age, date of qualification, experience, and salary required. 206/13, Office of this Paper.

TORQUAY.—Assistant (male), qualified preferred, for high-class Dispensing business. Cocks & Dunsford, Pharmacists, Torquay.

WOKING.—Wanted, a capable qualified Assistant, a quick and accurate Dispenser, capable of taking charge in a good-class Dispensing business. Apply, with usual references, experience, etc., to A. Lloyd Davies, Chemist, Woking.

A COMPETENT, unqualified gentleman Assistant required immediately for good-class business; Dispensing, Counter, Photography; permanency to suitable applicant. Full particulars to E. J. Blaker, Ltd., High Street, Haslemere, Surrey.

A QUALIFIED young man wanted, accustomed to N.H.I. and Counter, Photography. Apply Hughes, 606 Harrow Road, Paddington, London, W.10.

ASSISTANT required, 20-28 (about), for Dispensing and Counter. Apply, in person Saturday morning, to Bewells, 101 Leather Lane, Holborn, E.C.

ASSISTANT, unqualified (male), required; good Dispenser and Window-dresser, with knowledge of Photographic. Give full particulars, age, height, salary, etc. Applications not answered in 3 days respectfully declined. H. J. Bromhall, 10 King Street, Thetford.

ASSISTANT, qualified, either sex, young, to manage Dispensary, largely N.H.I., counter relief, Photography; short hours; no holiday or Sunday duty; must be conscientious, keen worker. Full particulars, age, height, photo if convenient. Jones, Houghton-le-Spring, Co. Durham.

COMPETENT Assistant for Front Counter chiefly in high-class Dispensing and Retail business; good appearance and address; permanency. Photo and fullest particulars of experience to Davies John & Aspell, Bath.

JUNIOR Assistant; Dispensing, Counter and Windows. Please give full particulars. Maunder Bros., Taunton.

JUNIOR Assistant (male) wanted (outdoor) for good-class Dispensing and Retail business (no N.H.I.); reliable Dispenser. Apply, giving full particulars, to Price, Pharmaceutical Chemist, 2 Guildford Road, Woking, Surrey.

JUNIOR, unqualified (male), for a good-class country business; must be capable and energetic. Full particulars, salary required, Bates & Hunt, Chemists, Wellington, Salop.

JUNIOR Assistant, qualified or unqualified (young), to commence April 15; quick and accurate; good worker; all particulars. Apply to 208/18, Office of this Paper.

JUNIOR wanted for high-class Dispensing and Photographic; references and salary in first letter. G. Harris, 201 London Road, Kingston-on-Thames.

JUNIOR or Improver (used to Dispensing) wanted immediately for the East End of Loudon; good salary and permanency for suitable person. Apply, giving age, salary required and experience, to P.C.B. 19/14, Office of this Paper.

LADY.—Fully qualified Manageress in South London; a good opening for a clever young woman capable of dealing with Panel and Photographic work; salary and commission; state age, height, references, and salary; good Counter work essential. Address 211/18, Office of this Paper.

MANAGER wanted, qualified, married, for branch, to live over premises. State age, experience and wages required to A. E. Coverdale, Pharmaceutical Chemist, Worcester.

MESSRS. TANNERS require unqualified Assistant, age about 25, for their Tottenham branch. Please give full particulars, with photo if possible, in first letter, or personal interview, to Mr. Knight, c/o Tanners, 75 Silver Street, Edmonton, N.18. 'Phone: Tottenham 2558.

QUALIFIED lady, young, required at once for medium class country trade; N.H.I. and Photographic Counter trade. State age, height, salary required to W. Willott, Ltd., 76 Market Street, Milton, Stoke-on-Trent.

QUALIFIED Manager required for small branch business in Nottinghamshire. Please state full particulars of experience and salary required. 208/22, Office of this Paper.

QUALIFIED Assistant wanted; must be a good Counterman and Window-dresser, young, but capable. Apply personally to Wavell & Co., 328 Vauxhall Bridge Road, S.W.1.

QUALIFIED Dispenser, about 26, male, for West-End Dispensing establishment; neat and careful worker; short hours Apply Box 5, Haymarket Stores, Haymarket, S.W.1.

QUALIFIED Assistant, young, energetic, accustomed to quick Dispensing and Counter business; knowledge of Photography. Full particulars, stating age, experience, references, salary required, photo (will return). Deakin, Ltd., Witton Street, Northwich, Cheshire.

QUALIFIED Assistant wanted for branch shop; Potteries 210/2, Office of this Paper.

QUALIFIED Chemist wanted immediately; seven miles Birmingham; part-time preferred. Send fullest particulars with references, and stating salary required. 209/38, Office of this Paper.

QUALIFIED Chemist wanted at once for London, S.E.; small middle-class business with N.H.I. and Photography. Age, wages (outdoors) and usual particulars to 210/32, Office of this Paper.

QUALIFIED, energetic, to manage neglected branch in working-class district of Manchester. Applications not answered within one week respectfully declined. Please give full particulars in first letter to 212/29, Office of this Paper.

SMART Junior, mixed business. Apply, stating age, experience, salary required, Ballard & Co., Faringdou, Berks.

SMART Unqualified Assistant wanted immediately for good-class North London Pharmacy; good Window-dresser and Counter experience essential. Reply "Pharmacist," 210/6, Office of this Paper.

SQUIRE & CO. (BIRMINGHAM), LTD., require a capable, energetic Manager for a branch, with house attached, in London, S.E. Applicants must be used to a quick cash business with N.H.I. Dispensing. Give full particulars of previous experience, age, salary required and when at liberty to AMG/MBA, Squire & Co. (Birmingham), Ltd., Hazelwell Lane, Stirchley, Birmingham. Applicants not replying within four days will be respectfully declined.

TWO Assistants required, one qualified and one unqualified, to share night duty, 8 p.m.—9 a.m. Please send full particulars of experience and salary expected to H. E. Matthews, Ltd., next to Tube Station, Mornington Crescent, N.W.1.

UNQUALIFIED Assistant; must be well experienced in Dispensing, Photography, Window-dressing, Salesmanship; permanency. Give full particulars of experience, salary required (outdoor), age, by letter. Emmerton & Co., Ltd., 27 High Road, Balham, S.W.

UNQUALIFIED Junior required; must be a reliable Dispenser. Apply, giving particulars of experience, age, height, and salary required, to C. W. J. Watkins, M.P.S., 3 Mortlake Terrace, Kew Gardens, Surrey.

WANTED, young qualified Chemist (lady or gentleman) for Family, Dispensing and Photographic business. Full particulars and salary required to W. H. Lenton, Hunstanton.

WANTED, qualified Assistant to take charge of Drug Department. Full particulars of experience, salary required, enclosing photograph, marked private, Jarrold & Sons, Ltd., Norwich.

WANTED, Junior or Improver; outdoors; unqualified; easy hours and some knowledge of Agricultural business an advantage. Plomley & Waters, Ltd., Chemists, Rye, Sussex.

WANTED, an experienced Unqualified Assistant, not over 26, Photography and good Window-dresser, from May 1 till end of September. State age, wages required and photo; good references essential. Hall, Chemist, Skegness.

WANTED immediately for a short period, possibly permanent, a Qualified Assistant for a good-class Pharmacy and Photographic business. Please state full particulars, experience, salary (outdoor), references, etc., to Morgan, 27 Walter Road, Swansea.

WANTED, Lady Chemist to manage small shop, Harrogate. Write, salary, Brough, Ash Grove, Harrogate.

WANTED shortly, energetic Manager for country business in Midlands; house provided; view to succession would be entertained. Apply 210/28, Office of this Paper.

YOUNG Qualified Assistant to manage small branch. Apply Courtenay, 2 Queen's Terrace, St. John's Wood, N.W.8.

YOUNG lady, unqualified, for Counter, Stock, Dispensing and Book-keeping; facilities for attending part-time classes if desired. Please give full particulars and salary required. Allen Jones, Chemist, Gt. Crosby, Liverpool.

YOUNG qualified man required for carrying out relief work during summer season; this is a splendid opportunity for getting experience, with prospects of a good permanency if satisfactory. State age, previous experience, and salary required. 211/245, Office of this Paper.

WHOLESALE.

AN Assistant, with Pharmaceutical or Chemical training, wanted for organising the packing and despatch of Fine Chemicals; must have administrative ability; progressive salary. Apply, stating age and experience, to 145/152, Office of this Paper.

AN old-established Firm of Manufacturing Chemists and Drug Packers (Midland Area) have a vacancy for a Qualified Man, about 40, to assist in and take charge of, if necessary, the laboratory; one experienced in manufacturing on large scale preferred. Apply, stating age, experience and wages required, enclosing photograph, 145/158, Office of this Paper.

BRITISH Manufacturers of high-class Hot Water Bottles, Air Cushions, etc., require representation by established Commission Agents calling on Retail Chemists, etc., in the following areas:—(1) Lancashire, (2) Yorkshire, (3) Eastern Counties, (4) South Wales, (5) Cornwall, Devon and Somerset, (6) Scotland. Apply, giving full particulars, area covered, commission required. 145/149, Office of this Paper.

EXPERIENCED Travellers wanted to sell two well-known Proprietaries to Retail Chemists; only men with established connections in (1) North London and Eastern Counties, or (2) Yorkshire and North-Eastern Counties, need apply. Send particulars of previous experience to 145/151, Office of this Paper.

REPRESENTATIVES (part time) required to solicit orders for well-known Specialities from Barbers' Shops and Novelty Stores on board liners calling at principal ports in United Kingdom; remuneration by commission and expenses; applicants must give full particulars of present employment and experience in such work. Replies 145/153, Office of this Paper.

REPRESENTATIVES, calling on Chemists Hairdressers, Stores, etc., required to sell Packed Toilet Requisites and Perfumery; would suit as a side-line on commission; preference to car owners, as samples bulky. 145/156, Office of this Paper.

SALES Representative required to sell high-class French Perfumes, Creams, etc., in West-End, London; must have good sales record and first-class connection with Stores, Chemists and Hairdressers; part expenses and good commission. Full particulars to "Parfums," 136 Southwark Street, S.E.1.

TOILETS.—Representative wanted (male or female), with sound connection amongst good Chemists, Hairdressers and Stores, to carry attractive proprietary range of Toilet specialities, Perfumes, Powder Puffs, etc. State fully experience, ground covered, wages, etc. Only live persons with genuine connection need apply. 203/14, Office of this Paper.

WANTED, Travellers, calling on Chemists and Stores, to introduce important side line on good commission basis; offers considerable scope; no stock to carry. Apply P.C.B.18/23, Office of this Paper.

WANTED at once, first-class Salesman to sell advertised Toilet Specialities in Kent, Surrey, Sussex, Hampshire and Berkshire; must be thoroughly experienced and have a line connection with leading buyers and be able to place displays and arrange selling schemes; an opportunity for a man with personality and energy. 145/159, Office of this Paper.

WANTED, an energetic Traveller, with connection preferred, for old-established West-End Hairdressers' Sundries Manufacturing Firm; many lines suitable for Chemists; salary and commission. 209/40, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

CHINA.—Old-established firm of Manufacturing Chemists and Druggists is prepared to share expenses of capable Resident Representative for Shanghai and Northern China. Replies to 145/157, Office of this Paper.

NAIROBI.—Howse & McGeorge, Ltd., Nairobi, require the services of a qualified male Assistant, prepared to sail early, age 25/30, with good all-round experience and knowledge of Photography; 4 years' agreement; second class passage paid out; salary £30, £30, £37 10s. and £40 per month for the first, second, third and fourth years respectively. Reply, with copies of references and photograph, to "Zebra," 24 Fenchurch Street, E.C.3.

SITUATIONS WANTED.

RETAIL. [HOME.]

A CAPABLE and experienced Qualified Chemist; middle-aged; permanency or locum; disengaged. "Chemist," 415 High Road, Leytonstone, E.11.

A QUALIFIED Manager, exceptional modern business experience, desires progressive position, with living accommodation. 211/9, Office of this Paper.

A UNIQUE opportunity arises to secure the services, as Locum, of a young, competent, and experienced Pharmaceutical Chemist and Optician (registered J.C.Q.O.) who is disengaged for a few months; unquestionable references and integrity. 208/10, Office of this Paper.

ADVERTISER desires position with scope for his ability and experience in good-class Surgical, Dispensing and Prescribing; salary secondary to congenial business; disengaged; unregistered; can control under principal; best record and references. "N.," Hazelgrove House, Edwinstowe, Notts.

AS Manager or Locum; disengaged April 15; immediate. "Qualified," 86 Chelmsford Road, South Woodford, E.18.

ASSISTANT; unqualified; age 24; 5 years' excellent experience; free April 8; season's post preferred. G. Peters, Tanyfron, near Wrexham.

ASSISTANT; 32; experienced in all branches, including Ciné, Practipedics; use to and able to take charge. Apply 207/39, Office of this Paper.

ASSISTANT; age 19; first-class Counter, Photographic, Dispensing, also Agricultural; tall; smart; first-class references; disengaged April 15. Whitfield, "The Laurels," Hetton le Hole, Co. Durham.

ASSISTANT; unqualified; age 32; 7 years' all-round experience, Counter, Dispensing and Photography; slight war disability. Buttolph, "The Glyn," Thorpe Road, Little Clacton, Clacton-on-Sea, Essex.

ASSISTANT, unqualified, Part I, desires situation for summer; smart Salesman, Window-dresser, Dispenser; Photography; excellent references. E. S. Cundall, "Ingsdale," Redcar Lane, Redcar, Yorks.

ASSISTANT, 26, capable, 4 years West-End, seeks permanency; City or West-End. P.C.B. 19/100, Office of this Paper.

ASSISTANT Locum; able to take charge; 20 years' Counter and Dispensing; unqualified. Fall, 105 Tottenham Lane, Hornsey, N.8.

ASSISTANT, 25, unqualified, desires permanent or temporary position; experienced Dispensing, Counter, Photographic; good references. Please state salary offered. 209/33, Office of this Paper.

ASSISTANT; 33; married; 14 years' experience, good-class Retail, Dispensing, Photography; living accommodation preferred, but not essential; any district. Andrews, 101 Boundary Road, St. John's Wood, N.W.8.

BIRMINGHAM DISTRICT.—Capable Assistant; unregistered; use to management (or Locum); middle-aged; smart Salesman, good Window-dresser, Photographic; all-round experience; good references. "J. C.," 39 Gravelley Lane, Erdington, Birmingham.

BOURNEMOUTH, Buxton or Northern Resort.—Qualified, 24, requires season's engagement; present Riviera; available May 6. 208/21, Office of this Paper.

BRANCH Manager; qualified; thoroughly experienced; satisfaction undoubted; disengaged soon as suited; locality optional. "A. E. J.," 621 Forest Road, Walthamstow, E.17.

BRISTOL or London districts preferred; qualified lady requires progressive post. Pollard, Binstead, Ryde, Isle of Wight.

CAPABLE Assistant; temporary or permanent; 25 years' experience in all branches; unregistered. "Sales," 13 Orchard Avenue, Blackpool, S.S.

CAPABLE, unqualified Assistant; mid-age; Dispensing, N.H.I., Counter, Stock, etc.; good references; abstainer. "V.," 3 Rectory Square, Stepney, E.1.

COMPETENT, energetic Assistant desires permanent situation; first-class experience; Counterman, Dispenser; adaptable; best references; diseagaged; mid-aged; unqualified; wages £3 10s., probably less; London only. "F.," 286 Kingsland Road, E.8.

COMPETENT Unqualified Assistant, 26, desires post; Birmingham district preferred, not essential; 12 years' varied experience, Dispensing, Counter and Photographics; references. "Chemicus," 21 Trindle Road, Dudley, Worcs.

D. & P. WORKER, with seaside experience, requires situation for season; Part I man; capable Counter and Dispenser; excellent references. L. Baker, 25 St. George's Terrace, Leeds.

DISENGAGED; permanency desired; London or country, latter preferred; mixed business not objected to; thoroughly experienced; married; no family; middle-aged; good references; unqualified. "Reliable," 2 Allestree Road, Fulham, S.W.6.

DISENGAGED; competent, all-round Assistant, energetic worker; tall; unqualified; over 25 years' experience. "Statim," 23 Doughty Street, Holbort, W.C.1.

DISPENSER-SECRETARY (Hall) requires post with Doctor or Hospital; experienced; excellent references. Miss Cole, "Radley," Welldon Crescent, Harrow.

EXPERIENCED Pharmacist requires Locum or permanency in good-class business; many years West-End manager. 208/7, Office of this Paper.

EXPERIENCED Pharmacist requires senior position, Locum or permanent; London only; free April 23. Littlejohns, 169 Holland Road, N.W.10.

LOCUM or permanent; experienced Manager; unqualified; energetic; trustworthy; excellent testimonials; fully competent; abstainer; Yorkshire or Lancashire preferred. 206/14, Office of this Paper.

LOCUM; experienced in all branches; qualified; active; excellent references; terms moderate; disengaged now. "S. C. I.," 54 Priory Road, West Hampstead, N.W.6. 'Phone: Hampstead 7151.

LOCUM or permanency; qualified woman; middle-aged; Bookkeeper; Doctor or Chemist; excellent references. 207/40, Office of this Paper.

LOCUM; qualified; active, reliable, and experienced; satisfaction given; offers wanted. Briggs, 8 Brooke Street, Dudley.

LOCUM; experienced; competent; reliable; disengaged for April; highest references; reasonable terms. "Chemicus," 56 Rudloe Road, Clapham Park, S.W.12.

LOCUM; M.P.S.; elderly; good references; moderate terms; disengaged April 8. Wellburn, 5 Winterwell Road, Brixton, S.W.

LOCUM, with excellent experience and highest possible references, open for immediate engagement; also booking summer dates for London and the provinces; unqualified. "R.," 131 Mount View Road, N.4.

LOCUM; qualified; retired Chemist; excellent references; booking dates April, May. "Chemist," Flat 2, 6 Colville Mansions, Powis Terrace, Bayswater, W.

MANAGEMENT, view to Partnership or purchase in high-class business, required by Pharmacist with 10 years' West-End experience. 208/70, Office of this Paper.

MANAGER, Senior, Dispenser; qualified; middle-aged; excellent references; South Coast; Bournemouth district preferred. Thompson, 30, St. Mary's Terrace, Hastings.

MANAGER or Locum; qualified; first-class references; West-End experience; married; London or country; disengaged. P.C.B. 19/7, Office of this Paper.

M.P.S., 24, requires permanent position, or as Locum; high-class West-End experience in Dispensing, Counter, Photography, etc.; last position as manager. 126 Goldhurst Terrace, N.W.6.

M.P.S., AGE 22, seeks situation in good-class Dispensing business; good experience and well recommended. 210/3, Office of this Paper.

PHARMACIST, 35, married, requires berth, Lancashire, Cheshire or Midlands; Assistant or control branch; competent and reliable. "M.P.S.," 23 St. Bride's Road, Seacombe, Cheshire.

PHARMACIST-OPTICIAN, excellent experience and references, desires appointment in London. P.C.B. 19/9, Office of this Paper.

QUALIFIED post desired as Locum; extensive London experience; London or Coast. "M.P.S.," 31 Gerrard Street, W.1.

QUALIFIED; 23; good all-round experience; wages moderate; London preferred. Powell, Windsor Place, Merthyr Vale, Glam., South Wales.

QUALIFIED; experienced; Lancashire or North preferred; Locum or permanent. Todd, 38 Queen Street, Ulverston, Lancashire.

QUALIFIED Chemist seeks Managership; experienced in all branches Retail Pharmacy, Surgical, Photo and Optics. 204/34, Office of this Paper.

QUALIFIED, 26, married, at present Manager, but desires change; experienced, competent, energetic; good salary expected, but able to earn it; Nottingham district preferred. 223 Sharrow Vale Road, Sheffield.

QUALIFIED; 28; Locum or permanency; 7 years' experience. E., 35 Rundell Crescent, N.W.4. 'Phone, Hendon 1253.

QUALIFIED, young, desires position; good experience and highest references; disengaged. Thomas, "Tymawr," Bodedern, Anglesey.

QUALIFIED Assistant, young, experience of all branches of profession, requires permanency or Locum with possibility of permanency; not afraid of responsibility; London preferred. Edwards, "Fernlea," Bryncethin, Glam.

QUALIFIED, 27, M.P.S., desires post as Manager in Retail; experienced; now disengaged. 210/10, Office of this Paper.

QUALIFIED Chemist, steady, reliable, middle-aged, seeks employment; recommended by present and past employers; free at once; terms reasonable. Apply 210/320, Office of this Paper.

QUALIFIED, 26, desires post as Manager; Lancs or Yorks preferred; good all-round experience in London and provinces. 211/21, Office of this Paper.

QUALIFIED, 26, married, experienced in all branches of pharmacy, requires progressive position as Manager or Senior; London or near; now managing; excellent references. 211/12, Office of this Paper.

REFERRED Pharmacy; 23; 6 years' all-round experience; used to quick Counter and Dispensing; energetic; disengaged. Radio, 101 St. Mark's Road, Enfield.

ALL DRUG CLERKS AND FOREMEN
should join at once
THE NATIONAL UNION OF DRUG & CHEMICAL WORKERS
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Write for particulars:—ARTHUR J. GILLIAN, Gen. Sec.
149 Newington Causeway, LONDON, S.E.1

REFERRED Pharmacy desires Locum work. Apply Miss M Tewndraw, 39 Bernard Avenue, Ealing, W. 13.

RETIRED Chemist is desirous of booking dates as Locum for the holiday months; references. Thomas, Carn Side, Garstang.

SWISS Chemist, with diploma of the Université of Lausanne, desires a position as Manager or Assistant; speaks French, German, Italian and English. Address to E. Isabel, St. Julian's Farm Road, West Norwood.

TEMPORARY work desired: experienced; active; smart; recent responsible references; unqualified; middle-aged; disengaged. "Rhei." 286 Kingsland Road, E.3.

THOROUGHLY efficient young married Pharmacist desires managerial or senior appointment in London; West-End or City preferred; first-class experience and references. P.C.B. 19/90, Office of this Paper.

UNQUALIFIED, married, 47, shortly disengaged, seeks situation; Chester or London districts preferred. "Rhei," 205/12, Office of this Paper.

UNQUALIFIED, young, good all-round experience, Dispensing, Counter and Photography, excellent references, requires permanency; disengaged April 15. "W.," 39 Lavender Gardens, Clapham Junction, S.W.11.

UNQUALIFIED; 22; 6 years' experience, Counter, Dispensing, Photographic, etc.; season or permanent. Williams, "Eirianfa," Adwy, near Wrexham.

WANTED, Managership of Drug Stores with view to early succession; London or South-Eastern Counties preferred. Write 209/27, Office of this Paper.

WANTED, in one month's time, by qualified man, 38, post as Manager; London or near; thoroughly experienced. 211/2, Office of this Paper.

WHOLESALE.

A COMPETENT Tablet Maker, 21, can devise his own formulæ and can work without supervision; experienced in Coated Work, Pills, and in the Manufacture of Medicinal and Toilet Preparations; accustomed to 14 different machines, hand and machine granulating; three first-class references. Write "F. M.," 50 Woodside Gardens, Tottenham, N.17.

A FIRST-CLASS Salesman, excellent connection North of England, would appreciate offers from leading houses; expenses and commission basis. Reply to 208/24, Office of this Paper.

ADVERTISER, 35, with many years' Sales Manager's experience in the Pharmaceutical market, seeks responsible appointment; exceptional qualifications; fully experienced in all sales department, executive and routine, and in administration and control of sales and professional propaganda in all departments; familiar with modern advertising ideas. Write 210/12, Office of this Paper.

ASSISTANT; knowledge Pill, Tablet Making, Stokes' Machine, Pearl and Sugar Coating; 10 years' Wholesale experience. 206/6, Office of this Paper.

CAPABLE Representative, young, splendid experience, knowledge high-class Perfumery, Sundries and Foreign Agency business, Pharmaceutical experience, strongly recommended, requires position, progressive house. 208/3, Office of this Paper.

FIRST-CLASS Introducer, splendid connection Chemists, Hairdressers and Stores, Northern Counties and Scotland, desires fresh engagement; own car. 209/39, Office of this Paper.

GENTLEMAN wishes representation or appointment; 14 years' connection with Doctors in whole West of Scotland. 210/17, Office of this Paper.

GENTLEMAN, 52, open to represent good firm; sound experience; West-End connection (propaganda, sales) amongst Doctors, Hospitals, Chemists; highest references. 145 160, Office of this Paper.

REPRESENTATIVE, calling upon Chemists, Wholesale and Retail, Yorkshire and East Lancashire, open for first-class Agency. 208/4, Office of this Paper.

REPRESENTATIVE, Pharmacist, motorist, connection with Chemists, Bournemouth to Whitstable, willing to go further, desires post with Wholesale House. 211/35, Office of this Paper.

YOUNG man, first-class Retail experience, desires to represent a good house in Irish Free State; aged 24; excellent salesman. 212/30, Office of this Paper.

(COLONIAL, INDIAN AND FOREIGN.)

MANUFACTURING Pharmacist, returning to Australia, wishes to get in touch with Specialty Proprietors, Toilet or Pharmaceutical, who wish to have their products made in that country. 206/21, Office of this Paper.

EXPERIENCED Assistant, 25, seeks Continental post; knowledge of French. P.C.B. 19/10, Office of this Paper.

CLEAR OUT—your Old or Damaged Stock of Photo Goods.
Why keep them any longer? Turn them into CASH.
I GIVE BEST PRICES for Old Films (damaged, fogged or expired dates); Packet Papers, Cards (any sizes), Old Photo Goods or Cameras. Bromide Papers. Plates (all sizes, all makes). Send any goods in the photo line. I buy all, good or bad. Cash per return. A good price for all Cameras. Send them along.
S. E. HACKETT, 23 July Road, Liverpool

FOR SALE.

KREAT HALVIVA, well-known Tonic, established 1892, stocked by "Boots" and well-known stores; Recipe and World Rights for Sale; price £1,500, or near offer. Write Box 146, c/o Davies & Co., 95 Bishopsgate, E.C.2.

WHAT OFFERS?—Oak Fittings, new condition, 12 ft. Wall Case; 12 ft. Drug Fitting; 6 ft. Dispensing Screen; 4 ft. Nest of Drawers; can be seen at any time. "Chemist," "Lilac," Hawthorn Road, Bognor.

WHAT OFFERS?—Complete Fixtures for Pharmacy, nest of drawers, Dispensing Screen, mirrored back shelves, shop rounds, recess latch cases at the front of counter and skeleton stock; all good quality mahogany fixtures. Please write P. Veale, 13 Cambridge Road, Eastbourne.

MISCELLANEOUS.

CHEMIST FITTINGS.—Complete Fittings in stock. Ranges of Drug Drawers with glass labels, shelving and lockers, glass-fronted Counters, Dispensing Screens, Wall Cases, etc.; all made in sections which any local man can fix. Also Second-hand Fittings, Shop Rounds (ribbon and recess labels); Cash Tills from 15s. 6d. Kwik-Sale Case, special Chemist design. D. MATTHEWS & SON, Chemist Fitters, 14 and 16 Manchester Street, Liverpool.

MAHOGANISED CHEMISTS' FITTINGS.—Complete Drug-fittings. 12 ft. and 10 ft. long, 8 ft. 6 in. high; Wall Cases, 10 ft., 8 ft. and 6 ft. long, 8 ft. 6 in. high; Glass Case Front Counters, 10 ft. and 8 ft. long; Dispensing Screens, 6 ft. and 5 ft. long, 5 ft. 9 in. high; Perfume Case; Desk; two 4 ft. nests Counter Drawers; plate-glass Salesman, 6 ft. high, 2 ft. x 2 ft.; 4 ft. plate-glass Counter, 3 ft. high, 23 in. wide. Low prices. GEORGE COOK, Chemists' Fitter, 27 Macclesfield Street, City Road, E.C.1.

QUALITY SHOP FITTINGS.—12 ft. Pharmacy Fitting, 10 ft. glass cased Front Counter, 6 ft. Dispensing Screen, 6 ft. Wall Case, 5 ft. bent plate-glass Counter Case, Counter Drawers, Perfume Case and Desk, all mahogany, £100; splendid value. PHILIP JOSEPHS & SONS, LTD., 90/92 St. John Street, Clerkenwell, London, E.C.1. "Pharmacy Fitters for over a Century."

SECOND-HAND CHEMISTS' FITTINGS.—We have an exceptionally fine selection of these in all sizes; prices are right, and goods are in first-class condition; we shall be pleased to supply particulars and prices. Call or write, RUDDUCK & CO., 219 Old Street, London, E.C.1.

£87 15s.—SET OF MAHOGANY FITTINGS.—10 ft. Drug Run, 30 drawers (glass knobs and labels), shelves, cupboards and lockers; 10 ft. glass-fronted Counter, nest of 15 drawers at back; 6 ft. Wallcase, 6 ft. Dispensing Screen, Perfume Case and Desk. Illustrations on request. E. BERG, LTD., 335 Old Street, London, E.C.1.

£95 FOR A COMPLETE SET of Pharmacy Fittings, ready for immediate use, 10 ft. mahogany Drug Fitting with showcase, drawers, cupboards, shelving, etc.; 6 ft. Wall Case in two heights; 6 ft. Dispensing Screen with showcases and bevelled mirror in centre; 10 ft. mahogany Serving Counter with cases in front; two nests of Counter Drawers; plate-glass Counter Case, Perfume Showcase and Desk, Check Till. PERCY R. E. JOSEPHS, 63 Old Street, 1/5 Tilney Court, London, E.C.1. 'Phone: Clerkenwell 0929.

£95.—12 ft. DRUG FITTING, comprising cupboards, drawers, lockers, show case, shelving and cornice above; 6 ft. Dispensing Screen, mirror centre; 8 ft. Wall Case in two heights; 10 ft. Counter with glass cases in front; Perfume Desk and Case. TREBLE'S, 549a Lea Bridge Road, Leyton, London, E.10. Pharmacy fitters for over a century.

EXCHANGE COLUMN.

WANTED.

GOWER, Chemists' Bookseller, 41 Voltaire Road, Clapham, wants Pharmacentical Books, including Pharmacentical Formulas, B.P.C., P.J.F., Optical Books.

OLD CHEMICAL SOCIETY JOURNALS, Annual Reports Progr. Chemistry, "The Analyst," "Chemical News," Pharmacentical Journals, *Chemist & Druggist*, etc. Offers 194/36, Office of this Paper.

Printed for the Proprietors by The Avenue Press (L. Upcott Gill & Son, Ltd.), 55 to 57 Drury Lane, W.C.2, and Published by the Proprietors, Morgan Brothers (Publishers), Ltd., at 42 Cannon Street, in the City of London.—April 6, 1929. [82/26]

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Uniform Crystals — free flowing makes tablets of highest purity

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A HANDSOMELY PACKED, CAREFULLY PREPARED LINE, WHICH HAS NO EQUAL AS A PROFIT-BRINGER

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URIC ACID ELIMINANT possesses valuable antiarthritic, diuretic and laxative properties.

"SAL ALTERATA" INDICATED IN **GOUT, RHEUMATISM, SCIATICA, LUMBAGO, CONSTIPATION, BILIOUSNESS, GRAVEL** and all diseases associated with the Uric Acid diathesis.

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